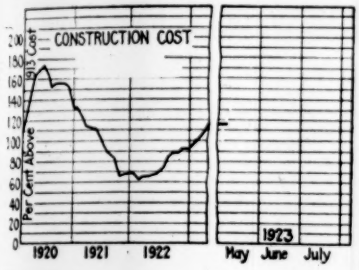
CONSTRUCTION NEWS

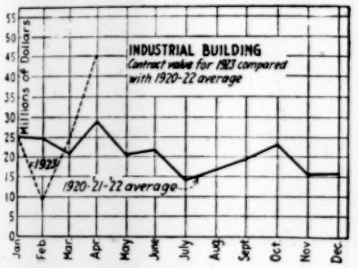
The Construction Barometer

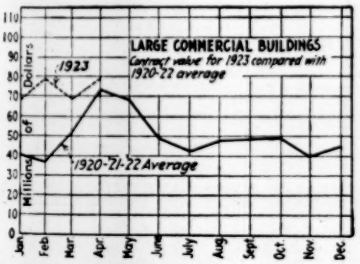
Cost Curve Flattened — All Metals Weaker — Contract Volume Given

THE most significant development is the softer tone of the iron and steel market. Unfilled orders on the books of the U. S. Steel Corporation were 114,823 tons less on April 30 than on March 31, and the premium has practically disappeared in price quotations. Lumber, cement and brick are generally stationary. Labor continues to rise. The general cost curve has flattened.

This week's charts show that contracts awarded this year are far heavier than last. Industrial work was particularly heavy in April. Value of contracts let for buildings, bridges, streets and roads for the first four months of 1923 are compared with the 1920-22 average over the same period. Later, construction will be analyzed by sections.







VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ending	Public Work	Private Work	Total Contracts
April 26	$22,049,000	$41,860,000	$63,909,000
May 3	30,970,000	18,629,000	49,599,000
May 10	14,414,000	24,211,000	38,625,000
3 weeks	$67,433,000	$84,700,000	$152,133,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

Week Ending	Public No.	Public Work	Private No.	Private Work
April 26	19	$6,646,000	41	$22,050,000
May 3	19	6,626,000	41	10,566,000
May 10	9	2,059,000	36	20,276,000
3 weeks	47	$15,331,000	118	$52,892,000

LARGE BRIDGE CONTRACTS—NUMBER AND VALUE IN 1922 AND 1923

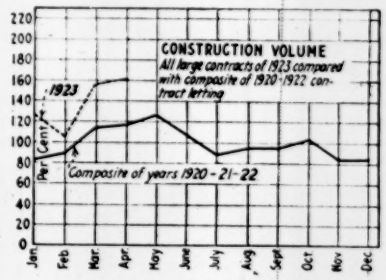
	1922 No.	1922 Value	1923 No.	1923 Value
January	24	$2,994,000	31	$6,900,000
February	19	1,095,000	26	2,723,000
March	22	1,137,000	40	5,779,000
April	30	1,525,000	26	3,310,000
4 months	95	$6,751,000	123	$18,712,000

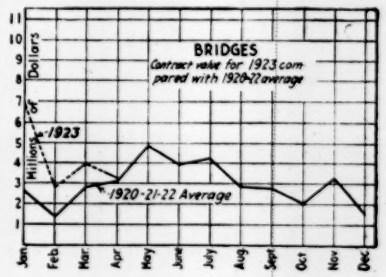
LARGE STREET AND ROAD CONTRACTS IN 1922 AND 1923

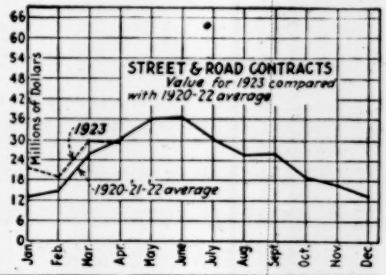
	1922 No.	1922 Value	1923 No.	1923 Value
January	92	$14,424,000	131	$21,691,000
Febru'ry	69	9,052,000	84	18,781,000
March	183	39,669,000	219	37,706,000
April	226	32,354,000	206	29,641,000
4 months	570	$95,499,000	640	$107,819,000

STEEL LOWER—OTHER BASE PRICES STABLE IN LAST FEW WEEKS

	Quoted On May 17, at	Price Was	On
Structurals, Pittsburgh, 100 lb.	$2.50 @$2.65	$2.50 @$2.70	May 10
Cement, Chicago, net bbl.	2.20	2.05	Feb. 1
Pine, New York, per M. ft.	60.00	58.00	Apr. 5
Fir, San Francisco per M. ft.	41.00	39.00	Apr. 5
Common labor, per hr.	0.51	0.50	Apr. 5







PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
May 19	Cleveland, O.	May 17
May 22	Portland, Me. Adv. Apr. 26 to May 17.	Apr. 26
May 22	Toronto, Ont.	May 17
May 22	El Segundo, Calif.	May 17
May 22	Redwood Falls, Minn.	May 17
May 22	Long Island City, N. Y.	May 17
May 22	New York, N. Y.	May 17
May 23	Spring Green, Wis.	May 10
May 24	Platte Center, Neb.	May 17
May 24	Dubuque, Ia.	May 10
May 25	New York, N. Y.	May 17
May 25	Brooklyn, N. Y.	May 17
May 25	Long Island City, N. Y.	May 17
May 25	Wauwatosa, Wis.	May 10
May 25	Cleveland, O.	May 3
May 25	Cleveland, O.	May 10
May 28	Bismarck, N. D.	May 10
May 29	Horton, Kan.	May 10
May 29	Homestead, Pa. Adv. May 17.	May 17
May 29	Claremont, N. H. Adv. May 17.	May 17
May 29	Belmar, N. J. Adv. May 17.	May 17
May 29	Watertown, S. D.	May 17
May 31	Grand Forks, N. D.	May 17
May 31	Easton, Md. Adv. May 10 and 17.	May 10
June 1	Hammond, Ind. Adv. May 17.	May 17
June 4	Talladega, Ala. Adv. May 10 and 17.	May 10

SEWERS

Bids Close		See Eng. News-Record
May 21	Pontiac, Mich.	May 10
May 21	Akron, O.	May 10
May 21	Creston, Ia.	May 10
May 21	Euclid, O.	May 17
May 22	Marion, Wis.	Apr. 26
May 22	Madison, Wis.	May 17
May 22	Erie, Pa. Adv. May 17.	May 17
May 22	Chicago, Ill.	May 17
May 23	Tonawanda, N. Y. Adv. May 10 and 17.	May 10
May 23	Brooklyn, N. Y.	May 17
May 24	Shaker Heights (Cleveland P. O.), O.	May 17
May 24	Bridgeport, Conn. Adv. May 17.	May 17
May 25	Detroit, Mich.	May 10
May 25	Durham, N. C.	May 17
May 26	Brooklyn Heights (Independence P. O.), O.	May 17
May 29	Wash., D. C.	May 10
May 31	Easton, Md. Adv. May 10 and 17.	May 10
May 31	New York Mills, N. Y. Adv. May 17.	May 17
May 31	Akron, O. Adv. May 17.	May 17

Bids Close		See Eng. News-Record
June 1	Hartford, S. D.	May 17
June 4	Kansas City, Mo.	May 17
June 4	Hackensack, N. J. Adv. May 17.	May 17
June 5	Hightstown, N. J. Adv. May 10 and 17.	May 17

BRIDGES

May 21	Marine City, Mich.	Apr. 26
May 22	Walhalla, S. C.	May 3
May 22	Santa Rosa, Calif.	May 17
May 22	Wyoming	May 17
May 22	South Dakota	May 17
May 22	Newark, N. J.	May 17
May 23	Wellington, Kan.	May 17
May 24	Hutchison, Kan.	May 17
May 24	Chicago, Ill.	May 3
May 25	Ladysmith, Wis.	May 10
May 28	Norwich, N. Y. Adv. May 17.	May 17
May 28	California	May 17
June 5	Grand Haven, Mich.	May 10
June 5	St. Louis, Mo.	May 10
July 31	La Center, Wash.	May 3
Nov. 30	Sydney, Australia	Apr. 19

EXCAVATION, DRAINAGE, IRRIGATION

May 21	Brooklyn, N. Y.	May 10
May 23	Crookston, Minn.	May 10
May 31	New Jersey	May 17
June 5	Rolling Fork, Miss. Adv. May 10 and 17.	May 10
June 15	Albert Lea, Minn.	Apr. 12

STREETS AND ROADS

May 18	Phila., Pa.	May 17
May 21	Russell, Kan.	May 17
May 21	St. Paul, Minn. Adv. May 3 to 17.	May 3
May 21	Norfolk, Neb.	May 10
May 21	Cheyenne, Wyo.	May 17
May 21	Indianapolis, Ind.	May 17
May 21	Red Bank, N. J. Adv. May 17.	May 17
May 21	Mimico, Ont.	May 17
May 21	New Haven, Conn.	May 17
May 21	Wapello, Ia.	May 17
May 21	Kaufman, Tex.	May 17
May 21	Dallas, Tex.	May 17
May 21	Euclid, O.	May 17
May 21	Milwaukee, Wis.	May 17
May 21	Geneva, Ala.	May 17
May 22	Newark, N. J.	May 17
May 22	Stockton, Calif.	May 17
May 22	Cleburne, Tex.	May 17
May 22	Maryland Adv. May 10 and 17.	May 10
May 22	Florence, Ala.	May 10
May 22	Kendallville, Ind. Adv. May 10 and 17.	May 10
May 22	South Bend, Ind.	May 10
May 22	Plattville, Wis.	May 10
May 22	Denver, Colo.	May 10
May 22	Audubon, N. J. Adv. May 17.	May 17
May 22	Lockport, N. Y.	May 17
May 22	Connecticut Adv. May 17.	May 17
May 22	Wyoming	May 17
May 22	Carrington, N. D.	May 17
May 22	South Dakota	May 17
May 22	Ottawa, Ont.	May 17
May 22	Grand Rapids, Mich.	May 17
May 22	New York, N. Y.	May 17
May 22	St. Therese, Que.	May 17
May 23	St. George, N. Y.	May 17
May 23	Havana, Ill.	May 17
May 23	Minnewaukan, N. D.	May 17
May 23	Ohio	May 17
May 23	Massillon, O.	May 17
May 23	Cleveland, O.	May 17
May 23	Wisconsin	May 17
May 23	San Francisco, Calif.	May 17
May 24	New York, N. Y.	May 17
May 24	Newark, N. J.	May 17
May 24	Cedar Grove, La.	May 10
May 24	Bottineau, N. D.	May 17
May 24	Garber, Okla.	May 17
May 24	Laporte, Ind.	May 17
May 24	Rock Rapids, Ia.	May 17
May 24	East Rockaway, N. Y.	May 17
May 24	Shaker Heights (Cleveland P. O.), O.	May 17
May 25	Mohall, N. D.	May 17
May 25	Larned, Kan.	May 17
May 25	Cincinnati, O.	May 17
May 25	Ohio	May 17
May 25	Clinton, Ia.	May 17
May 25	Tennessee	May 17
May 25	Washington, Pa.	May 17
May 25	Leamington, Ont.	May 17
May 25	Greenville, Tex.	May 17
May 28	Dallas, Tex.	May 17
May 28	Rockwood, Pa.	May 17
May 28	St. Paul, Minn.	May 17
May 28	Akron, O.	May 3
May 28	Kansas City, Kan.	May 10
May 28	Los Angeles, Calif.	May 17
May 29	Louisiana	May 10
May 29	Kentucky	May 10
May 29	St. Louis, Mo.	May 3
May 29	Maryland Adv. May 17.	May 17
May 29	Florida	May 17
June 1	Paducah, Ky. Adv. May 17.	May 17
June 4	Red Bank, N. J. Adv. May 10 and 17.	May 17
June 4	New Jersey Adv. May 17.	May 17
June 4	Ely, Minn.	May 17
June 5	Williamsport, Pa. Adv. May 17.	May 17
June 5	Bellaire, O.	May 17
June 6	Abilene, Tex.	May 17
June 7	Shelbyville, Ky.	May 17
June 8	Bradentown, Fla.	May 17

INDUSTRIAL WORK

May 21	Middletown, Conn.	May 17
May 22	Spartanburg, S. C.	May 17
May 25	Campbellford, Ont.	May 17
May 25	Watertown, N. Y. Adv. May 10 and 17.	May 10

BUILDINGS

May 19	Phila., Pa.	May 17
May 19	Baltimore, Md.	May 17
May 21	Sioux City, Ia.	May 17
May 21	Greensboro, N. C.	May 17
May 21	Bloomfield, N. J.	May 17
May 22	Old Forge, N. Y.	Apr 26
May 22	Roosevelt, N. Y.	May 17
May 22	Woodward, Ia.	May 17
May 23	Williamsport, Pa.	May 17
May 23	New York, N. Y.	May 17
May 24	Columbus, O.	May 17
May 25	Milwaukee, Wis.	May 17
May 25	Springfield, Mass.	May 17
May 25	Verona, Wis.	May 10
May 25	Fond du Lac, Wis.	May 17
May 26	Columbus, O.	Apr 26
May 26	Lakewood, N. Y.	May 10
May 28	Hamburg, N. Y.	May 10
May 28	Cleveland, O.	May 3
May 28	Byesville, O.	May 3
May 29	Stockton, Calif.	May 3
June 1	West Hartford (Hartford P. O.), Conn.	May 17
June 1	Morgantown, W. Va.	Apr 12
June 1	Tulsa, Okla.	May 17
June 1	Norman, Okla.	May 17
June 1	Cleveland, O.	May 17
June 1	Haworth, N. J. Adv. May 17.	May 17
June 4	Kansas City, Mo.	May 10
June 4	El Centro, Calif.	May 10
June 5	Mount Morris, N. Y. Adv. May 17.	May 17

FEDERAL GOVERNMENT WORK

May 21	Post Office — Houghton, Mich.	Apr. 26
May 21	Scows—Wilmington, Del. Adv. Apr. 26 to May 17.	Apr. 26
May 21	Levee—St. Louis, Mo.	May 3
May 21	Lumber—Louisville, Ky.	May 17
May 22	Steel Hull — Vicksburg, Miss. Adv. Apr. 26 to May 17.	Apr. 26
May 22	Post Office—Phoenixville, Pa.	May 3
May 23	Storehouse—Pearl Harbor, H. T.	Apr. 26
May 23	Remodeling—Portsmouth, N. H. Adv. May 17.	May 10
May 24	Dredging, etc. — Chicago, Ill. Adv. Apr. 26 to May 17.	Apr. 26
May 25	Hull, etc.—Louisville, Ky. Adv. Apr. 26 to May 17.	Apr. 26
May 25	Roads and Walks—Oteen, N. C.	May 10
May 28	Post Office—Saco, Me.	May 10
May 29	Levee Work—Vicksburg, Miss. Adv. May 17.	May 17
May 31	Dredging—Milwaukee, Wis. Adv. May 3 to 17.	May 3
May 31	Hospital—Rutland, Mass.	May 3
May 31	Dredging — Providence, R. I. Adv. May 3 to 17.	May 3
May 31	Road Repair—Oceanport, N. J. Adv. May 17.	May 17
June 1	Jetty—New Orleans, La. Adv. May 3 to 17.	May 10
June 1	Dredging—Richmond, Calif.	May 17
June 2	Dredging, etc.—San Diego, Calif.	May 17
June 4	Post Office—Leesburg, Va.	May 10
June 5	Emergency Gates—Montana	May 10
June 5	Dredging—New Orleans, La. Adv. May 10 and 17.	May 10
June 5	Dredging — Wilmington, Del. Adv. May 10 and 17.	May 10
June 6	Gates—Denver, Colo.	May 10
June 6	Barracks—San Diego, Calif. Adv. May 17.	May 17
June 6	Roads—San Diego, Calif.	May 17
June 8	Dredging—Phila., Pa.	May 3
June 11	Dike—New York, N. Adv. May 10 and 17.	May 10
June 13	Refrigerating Machinery—Pearl Harbor, H. T.	Apr. 26
June 13	Stack—St. Cloud, Minn.	May 17
June 15	Recreation, etc. — Dawson Springs, Ky. Adv. May 17.	May 17

MISCELLANEOUS

May 18	Paving Blocks—New York, N. Y.	May 17
May 22	Subway — New York, N. Y.	May 3
May 22	Wharf—Blind River, Ont.	May 10
May 23	Steel Penstock and Accessories —San Francisco, Calif.	Apr. 19
May 24	Electric Transmission Line — Seneca, Mo.	May 17
May 25	Power Development—Watertown, N. Y.	May 10
May 26	Transmission Line, etc. — Modesto, Calif.	May 17
June 1	Pier—Charleston, S. C. Adv. Apr. 26 to May 17.	Apr 26

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Ky., Jackson—Plans waterworks system, $25,000.

Ky., Louisville—Louisville Water Co., 435 3rd St. plans 2,650 ft. of 18 in. mains along Eastern Parkway from Shelby St. to Ashbottom Rd. $78,678. C. W. Smith, pres.

Ill., Springfield—Rejected bids centrifugal pumps and settling basin for pumping station. Will hold new bond election next month. Burns & McDonnell, 402 Interstate Bldg., Kansas City, Mo., engrs. Noted Apr. 5.

O., Columbus—See "Streets and Roads."

Wis., Little Chute—Making plans waterworks, incl. deep well, pumping station, rein.-con. mains, etc. $120,000. A. E. McMahon, Menasha, engr. Noted Apr. 26.

Wis., Mosinee—City plans pumping station, pumps and equipment. E. A. Bachman, clk. Engineer not selected.

Wis., Reeseville — Making plans new waterworks system, incl. rein.-con. mains, $15,000. E. B. Parsons, Jefferson, engr.

Ia., Lanesboro—Plans to improve water supply system. $15,000. O. E. Van Horn, city clk.

Minn., St. Cloud—Plans waterworks extensions, about 13 blocks. $15,000. M. B. Lang, city engr.

Wyo., Douglas—Plans gravity water system, incl. 21 mi. 16 in. pipe line, 300 ft. head. $250,000. F. T. Cummings, city engr.

Mo., Farmington—See "Sewers."

Tex., Spearman—Attorney General, Austin, approved $43,000 bonds for complete waterworks system and $12,000 for electric light plant. Address Mayor.

Okla., Antlers—Having plans prepared rapid sand filtration plant, pipe line extensions and new pumps. $30,000. H. G. Olmstead & Co., Oklahoma Bldg., Oklahoma City, engrs.

Okla., Cushing—Election latter part of month to vote on $500,000 bonds for waterworks improvements, incl. filtration plant, pumps, mains and rein.-con. reservoir. Benham Eng. Co., 512 Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Stillwater—Election May 22, to vote on $150,000 bonds for waterworks. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

BIDS DESIRED

N. H., Claremont—May 29, by Bd. Water Comrs., concrete dam and c.i. water pipe, etc. E. E. Davis, Northampton, Mass., engr.; adv. this issue.

N. Y., Brooklyn—May 25, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Aves. K, Dumont, 7th and 8th Aves., Carroll Montgomery, 46th, West 13th, East 51st and East 26th Sts., here.

N. Y., Fairport — May 25, to vote on $325,000 bonds constructing 10 mi. 12 in.

Waterworks (Continued)

and 1 mi. 16 in. mains, 1 m.g. rapid sand filter plant, 2 low adjacent earthen dams with concrete cores, and 300,000 gal. standpipe about 35 ft. high. J. P. Wells, consult. engr., Cutler Bldg., Rochester, preparing plans. Noted May 3.

N. Y., Long Island City—May 22, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Trains Meadow Rd., Bway., McClellan, Murison, Hancock and Hicks Places, Caldwell, Eliot, Hebberd, Anable, Nelson, Jansen, Mt. Olivet, Patterson, Polk, Rowan, 34th, Ditmars, Potter, 7th and 8th Aves., Barclay, Crescent, Davidson, Hallett, Bliss, Carolin, Gosman, Forest, Ferguson, Grove, Horton, Mary, McIntosh, Toledo and Tory Sts., here.

N. Y., Long Island City—May 25, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Constantia and 98th Places, Alstyne, Corona, Colonial, Lenox, Lewis, Marlowe and Way Aves., Bronson, Granger, Martense, Middagh, Saultell, Waldron, Vandoran, 41st and 45th Sts., here.

N. Y., New York—May 22, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Albany Post Rd., Van Courtlandt Park E., Davidson, Rochambeau, Riverdale, Tyndall, Waldo and Webb Aves., Doughty, East 157th, Exterior, East 147th, East 189th and West 252nd Sts., Bronx Boro.

N. Y., New York—May 25, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Unionport, Gun Hill and White Plains Rds., Allerton, Fenton, Morgan, Mayflower, Newbold, Pierce, Plymouth, Rhinelander, Rombouts, and Waterbury Aves., Mansion and Mead Sts., Bronx Boro.

N. J., Belmar—May 29, by Mayor and Boro Council, improving water system. F. V. Thompson, boro. clk.; adv. this issue.

Pa., Homestead — May 29, at office J. Schlick, boro. clk., furnishing and laying pipe line. J. M. Rice, 411 Oliver Bldg., Pittsburgh, engr.; adv. this issue.

Ind., Hammond—June 1, by Bd. Pub. Wks., condenser, etc., snow for pumping engine, also rebuilding and removing old pumping engines to new pumping station. A. J. Swanson, chn.; adv. this issue.

O., Cleveland—May 19, Cuyahoga Co., 21,300 ft. 12 in. c. i. mains in Impvt. 28 of Co. Sewer Dist. R. F. MacDowell, Court House, engr.

O., Euclid—See "Sewers."

O., Shaker Heights (Cleveland, P. O.)—See "Sewers."

Neb., Platte Center—May 24, by Henningson Eng. Co., engrs., National Bldg., Omaha, new well, pumps, 50,000 gal. steel tank on 100 ft. steel tower, 6 blocks 4 and 6 in. c.i. mains, for city $17,000.

N. D., Grand Forks—May 31, improving filtration plant, incl. 60 x 142 ft. concrete slab roof over sedimentation basin D. $15,000. C. J. Evanson, city clk.

S. D., Watertown—May 29, by Utilities Comn., concrete substructure and brick superstructure for filtration plant, complete filter, pumping equipment, etc. $55,000. W. T. Cochrane, city engr.

Calif., El Segundo—May 22, by City Clerk, 25,560 lin.ft. 4-10 in. c. i. water pipe, 26,000 lb. c. i. water pipe fittings, one 100,000 gal. steel tank with tower, 2 horizontal centrifugal pumping units with electric motors, etc. Olmstead & Gillelen, Hollingsworth Bldg., Los Angeles, engrs.

Ont., Toronto—May 22, by C. A. Maguire, mayor, 36 and 42 in. c. i. special water main castings, Tender 42. $15,000. R. C. Harris, city engr.

BIDS RECEIVED

O., Cleveland — Concreting pockets at Crib 3, Lake Erie, 3,900 cu.yd. rubble concrete, from Amer. Constr. Co., Marion Bldg., $89,000. Noted Apr. 26.

Wis., La Crosse — Mains in various streets, from Mankato Constr. Co., Mankato, Minn., $44,795.

CONTRACTS AWARDED

Conn., Manchester — Orford Soap Co., Hilliard St., rein.-con. reservoir, 200,000 gal. capacity, to R. G. Bent Co., 183 Ann St., Hartford. Engrs. est. $60,000.

N. Y., Keeseville—Bd. Water Comrs. 24,000 ft. 10 in. Universal c.i. pipe, to Aird-Don Co., Plattsburg, $2 per ft.; excavating, hauling and laying above pipe, to J. J. Fitzpatrick & Sons, Plattsburg, $0.675 per ft., average haul 3½ mi. Noted Apr. 19.

O., Brooklyn Heights (Independence P. O.)—See "Sewers."

WATER-WORKS AND SEWERS—MARIEMONT, OHIO

Following are successful contractors for water supply, sewerage and drainage systems, bids for which were opened on Apr. 18, (A) John L. Walker Co., 231 Court St., Hamilton, (awarded contract for sewers and drains); (B) Crumley, Jones & Crumley, 2301 Concord St., Cincinnati, (awarded contract for water supply). The unit bids were as follows:

	A	B
3,000 lin.ft. 4 in. c.i. pipe lines	$1.50	$1.45
21,000 lin.ft. 6 in. c.i. pipe lines	1.75	1.85
33,000 lin.ft. 8 in. c.i. pipe lines	2.35	2.45
450 lin.ft. 10 in. c.i. pipe lines	3.75	3.25
14,000 lin.ft. 12 in. c.i. pipe lines	4.00	3.95
3,100 lin.ft. 16 in. c.i. pipe lines	7.00	6.25
50-4 in. gate valves	25.00	25.00
70-6 in. gate valves	35.00	37.00
110-8 in. gate valves	55.00	53.00
4-10 in. gate valves	80.00	75.00
22-12 in. gate valves	100.00	92.00
2 16-in. gate valves	500.00	255.00
125 hydrants	150.00	135.00
13,000 lin.ft. ¾ in. service pipe lines	1.40	1.10
3,000 lin.ft. 1½ in. service pipe lines	1.75	1.50
950-¾ in. service connections	10.00	12.00
270-1½ in. service connections	17.00	22.00
30 gate valve chambers	50.00	58.00
27,000 lin.ft. 6 in. vitrified pipe sewers	1.00	1.10
46,000 lin.ft. 8 in. vitrified pipe sewers	1.25	2.10
2,000 lin.ft. 10 in. vitrified pipe sewers	1.75	8.70
100 lin.ft. 12 in. vitrified pipe sewers	2.00	5.00
2,100 lin.ft. 15 in. vitrified pipe sewers	2.50	6.00
1,500 lin.ft. 18 in. vitrified pipe sewers	3.25	3.60
280 lin.ft. 10 in. c.i. pipe sewers	3.50	4.00
12,000 lin.ft. 6 in. vitrified pipe drains	1.00	1.00
9,500 lin.ft. 10 in. vitrified pipe drains	1.75	1.50
4,500 lin.ft. 12 in. vitrified pipe drains	2.00	1.85
7,100 lin.ft. 15 in. vitrified pipe drains	2.25	2.20
7,600 lin.ft. 18 in. vitrified pipe drains	3.25	2.90
3,300 lin.ft. 20 in. vitrified pipe drains	4.00	3.35
2,800 lin.ft. 24 in. vitrified pipe drains	5.50	4.60
4,400 lin.ft. 30 in. vitrified pipe drains	6.50	7.00
2,400 lin.ft. 33 in. reinforced concrete pipe drains	6.50	8.00
2,200 lin.ft. 42 in. reinforced concrete pipe drains	7.50	10.00
2,500 lin.ft. 48 in. reinforced concrete pipe drains	8.50	13.50
800 lin.ft. 66 in. reinforced concrete pipe drains	15.00	20.00
390 manholes on vitrified pipe	85.00	105.00
32 manholes on concrete pipe	150.00	200.00
320 type A inlets	50.00	21.00
7 type B inlets	60.00	25.00
2 type C inlets	40.00	15.00
1,000 lin.ft. 6 in. vitrified pipe underdrains	.75	1.00
500 lin.ft. 8 in. vitrified pipe underdrains	1.10	1.50
*150 cu.yd. class A concrete masonry	30.00	17.00
*300 cu.yd. class B concrete masonry	20.00	15.00
*50 cu.yd. brick masonry	20.00	30.00
*1,000 lb. reinforcing steel	.08	.10
*200 cu.yd. earth excavation below grade	1.00	3.00
*600 cu.yd. rock excavation	6.00	6.00
*500 cu.yd. gravel filling to be furnished	4.00	4.00
Removing culvert (lump sum)	1,000.00	200.00
*8,000 sq.yd. restoring roadway pavement	3.50	.90
*500 sq.yd. concrete paving	2.50	3.00
Connection to Cincinnati Water Works (lump sum)	3,000.00	100.00
2-12 in. supply meters	1,500.00	1,440.00
2 supply meter chambers	250.00	350.00
15 air valves and chambers	50.00	50.00
Extended totals (sewers)	$375,085	
Extended totals (water-works)		$281,127

* These items divided between two contractors.

Mich., Detroit—Bd. Water Comrs., furnishing 150 tons 4-24 in. special castings D.W.W. specifications and 187.5 tons A.W.W.A. specifications, from Russel Wheel & Fdry. Co., Chene St., $100 per ton.

Ia., Walnut—For 13,820 lin.ft. 1-4 in. c.i. mains, etc., to C. Robeck, 1539 Park Ave., Omaha, Neb., $14,812. Noted Apr. 12.

S. D., Conde—Waterworks system, incl. 2 mi. 4-8 in. c.i. pipe, 60,000 gal. elevated tank, 75,000 gal. rein.-con. reservoir, and one 6 x 8 triplex pump, to Phelps-Drake Co., 719 Metropolitan Life Bldg., Minneapolis, $33,000.

Tex., Greenville—To Janes Contg. Co., Southwestern Life Bldg., Dallas, 4,750 ft. 4 in., 12,979 ft. 6 in. and 18,978 ft. 8 in. Class B c.i. mains, fittings, etc. $64,294; 14,390 ft. 6 in. and 12,490 ft. 8 in. vitr. sewer pipe, $16,560. Noted Mar. 29.

Ont., Lansing—H. D. Goode, clk. North York Twp., concrete and brick pumphouse, concrete filtration plant and concrete dam, to A. R. Campbell & Co., Toronto (street address not available) $39,230; pumps, motors, etc., to Bawden Machine Co., 163 Sterling Rd., Toronto, $12,117; filter equipment, to Canadian International Filter Co., Confederation Life Bldg., $12,050; elevated steel tank, to Horton Steel Co., Bridgeburg; c.i. pipe, to Natl. Iron Pipe Co., Cherry St., Toronto, $19,000; laying mains, to Ruscica Bros. & Co., 256 Ontario St., Toronto, $4,426; tank foundations, to Roco & Co., c/o James, Proctor & Redfern, Ltd., 36 Toronto St., Toronto, $2,065. Contracts for valves and hydrants amounting to $35,000, still unawarded. Noted Apr. 5.

Sewers

PROPOSED WORK

Conn., Norwich—State Legislature, Hartford, appropriated $25,000 for new sewerage system for Norwich State Sanatorium. H. B. Campbell, supt.

N. Y., Endicott—Bd. Village Trustees rejected bids sanitary and storm sewers in Union Dist. Will readvertise. C. F. Hunt, village engr.

N. Y., Rochester — See "Streets and Roads."

S. C., Spartanburg—Plans sewer extensions in Woodland, Poplar, Palmetto, St. John and West Columbia Sts., et al., concrete and vitr. clay pipe. $50,000. P. J. O. Smith, supt. streets.

Tenn., Sweetwater—Voted $50,000 bonds for sewerage system.

O., Columbus—See "Streets and Roads."

O., Upper Arlington (Columbus, P. O.)—See "Streets and Roads."

Mo., Bolivar—Making preliminary surveys complete sanitary sewerage system and electric light improvements. A. T. Archer & Co., 609 New England Bank Bldg., Kansas City, engrs.

Mo., Farmington — Making plans new sewerage system and extensions to water works. $100,000. C. A. Haskins, 517 Finance Bldg., Kansas City, engr.

Mo., Gallatin—Shockley Eng. Co., engrs., 800 Graphic Arts Bldg., Kansas City, takes bids about June 1, sewerage system and pavements, here. $60,000.

Mo., Sikeston—Plans election to vote on $55,000 bonds for several miles 16 in. vitr. trunk sewers and Imhoff settling tank. If bond issue passes, $60,000 worth of lateral sewers will be installed (to be paid by special assessments). W. A. Fuller Co., 1917 Railway Exch., St. Louis, engrs.

Tex., Hearne—Making plans sewer extensions. $60,000. Municipal Eng. Co., 715 Praetorian Bldg., Dallas, engrs.

Calif., Santa Clara—Having plans prepared outfall sewerage system, 4,900 lin.ft. 24 in., 3,100 lin.ft. 22 in. and 20,400 lin.ft. 18 in. pipe, vitr. or concrete. To excess $25,000. H. B. Fisher, Growers Bank Bldg., San Jose, engr. Noted Mar. 29.

Sewers (Continued)

BIDS DESIRED

Conn., Bridgeport—May 24, by Sewer Com. of Common Council, City Hall, 18,000 lin.ft. 8-48 in. pipe, manholes, etc. J. A. McElroy, city engr.; adv. this issue.

N. Y., Brooklyn—May 23, by E. Riegelmann, boro pres., Boro Hall, sewers in Vermont St. between Highland Blvd. and Jamaica Ave., etc.

N. Y., New York Mills—May 31, sanitary sewerage system. W. G. Stone & Son, 24-31 Mann Bldg., Utica, engrs.; adv. this issue.

N. J., Hackensack—June 4, by Hackensack Impvt. Comn., sewers, pumping stations, equipment, etc., Contrs. 5 and 6. L. Lozier, Bank Bldg., Main and Mercer Sts., engr.; adv. this issue.

N. J., Hightstown—June 5, alterations and additions to sewage disposal plant. G. P. Dennis, boro clk.; adv. this issue. Noted Mar. 1.

Pa., Erie—May 22, by City Council, constructing sewers. F. C. Lynch, city engr.; adv. this issue.

N. C., Durham—May 25, by R. W. Rigsbee, city mgr., sanitary sewers, 20,000 ft. 8 in. terra cotta pipe and 10,000 ft. 6 in. iron services.

O., Akron—May 31, at office of W. F. Peters, dir. Pub. Serv., trunk intercepting sewer in Hawkins Ave.; adv. this issue.

O., Brooklyn Heights (Independence P. O.)—May 26, sewers in West 11th St. and Schaaf Rd. To exceed $25,000. W. H. Evers Eng. Co., Engineers Bldg., Cleveland, engrs.

O., Euclid—May 21, vitr. clay sewers and c.i. water mains in East 264th St., Hartland, Colburn and Alberton Rds. To exceed $25,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

O., Shaker Heights (Cleveland P. O.)—May 24, sewers, water mains, grading and laying sidewalks on East 156th St. and Milverton Rd. To exceed $25,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Ill., Chicago—May 22, by Bd. Local Impvts., 207 City Hall, for sewers. $43,000. C. D. Hill, ch. engr.

Wis., La Crosse — Sewers in various streets, from C. W. Noble, 206 State Bank Bldg., $69,387.

Wis., Milwaukee—Sewerage Comn., 508 Market St., structural steel for filter and drier house on Jones Island, to Milwaukee Bridge Co., 1400 34th St., $114,800.

Mo., Kansas City—June 4, by P. Hartung, engr., City Hall, disposal plant and 7 mi. of 7 ft. rein.-con. or concrete sewers in Blue Valley. $2,225,000. Noted Mar. 1.

Kan., Madison—May 22, by G. F. Fellay, city clk., sanitary sewerage system, outfall sewers and disposal plant, incl. 2,600 ft. 12 in., 9,000 ft. 10 in. and 11,000 ft. 8 in. vitr. clay pipe, 16,000 cu.yd. earth trenching, etc., in 1st to 6th Sts., inclusive, Main and Sherman Rds., Central, Boone, Davis, Hamson, Madison West, North, South and Dutch Hollow Sts. $59,795. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, Okla., engrs. Noted May 3.

S. D., Hartford—June 1, sanitary sewerage system and disposal plant $35,000, extending watermains, $4,000. Chenoweth, Kennedy & Rettinghouse, Boyce-Greely Bldg., Sioux Falls, engrs. Noted May 10.

BIDS RECEIVED

Mich., Detroit—Laterals 3910 and 3912, from W. Blanck & Co., 827 Ford Bldg., $29,767 and $16,755; Lateral 3913 from P. Cappello, Detroit (street address not available) $1,075; Laterals 3914 and 3918, from Rennie & Dibble, Lincoln Park (Wyandotte P. O.) $14,806 and $11,977; Laterals 3916 and 3920, from Hammen & Co., 4612 Woodward Ave., $9,473 and $15,978; Lateral 3919 from Detroit Drainage Constr. Co., 5099 LeMay Ave., $17,395; Lateral 3917, from C. R. Lennane, 2631 Woodward Ave., $12,906; Storm Sewer 3853, from C. Tusco Co., Detroit (street address not available) $9,982. Noted May 10.

Wash., Seattle—Bd. Pub. Wks., May 4, from F. N. Badolato, Box 561, sanitary sewers in Brandon St. et al., (a) clay (b) concrete, 10,235 ft. 8 in. (a) $2.35 (b) $2.30, 3,090 ft. 10 in. (a) $2.75 (b) $2.70, 362 ft. 12 in. (a) $3 (b) $2.90, 1,210 ft. 15 in. (a) $4.75 (b) $4.65, 410 ft. 18 in. (a) $6 (b) $5.75, 752 ft. 21 in. (a) $7.50 (b) $7, total with (a) $70,984 with (b) $69,683; East Marginal Way, 3,824 ft. 12 in. clay sewer pipe $1.87, 3,242 ft. 15 in. $2.50, 4,214 ft. 18 in. $2.80, 4,310 ft. 21 in. $3.30, 2,348 ft. 24 in. $4, 1,574 ft. 27 in. $5.10, 1,828 ft. 32 in. $7, 304 ft. 36 in. $14, etc. Total $124,321, engrs. est. $135,000.

Calif., Whittier—Outfall sewers and sewage disposal plant incl. 15,623 lin.ft. 18-27 in. pipe, rein.-con. Imhoff tanks and filter beds, 1,000,000 gal. capacity, etc. (a) complete construction of outfall system and disposal works (b) portion of outfall to be built at this time (c) portion of disposal works to be constructed at this time, from De Waard & Cobham, Granger Bldg., San Diego, (a) $137,904 (b) 48,965 (c) $46,250.

CONTRACT AWARDED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to D. Bonnacci, 672 Degraw St., Brooklyn, sewers in Bliss St. $8,194, 95th St. $6,101, 95th Ave. $22,853, 84th St. $29,369; to Seaside Contg. Co., 193 Beach 108th St., Rockaway Beach, Kimball Ave. $9,663. Noted May 3.

New Jersey—Comrs. of Jersey City, City Hall, constructing Sect. 1 sewage disposal works, to J. L. Sigretto, Bernardsville, N. J., $1,104,401; Sect. 3, 10 mi. sewers from Dover to Boonton, to C. F. Goeringer Constr. Co., 51 South Washington St., Wilkesbarre, Pa. Noted Apr. 19.

Ky., Louisville—Comrs. of Sewerage, constructing Portland Relief sewer, to F. C. Williams, Fairmont Hotel, Jersey City, N. J., $143,686. Noted Apr. 5.

O., Brooklyn Heights (Independence P. O.)—For 5,320 ft. 12-30 in. vitr. clay sewers and 4,330 ft. 4-8 in. c.i. mains, to F. Philipps Co., Engineers Bldg., Cleveland, $34,000. Noted Apr. 26.

Ill., Park Ridge—Sewers, to American Eng. and Constr. Co., 2816 North Washtenau Ave., Chicago. Engrs. est. $25,000. Noted May 3.

Ill., Urbana — Urbana-Champaign Sanitary Dist., Flat Iron Bldg., intercepting sewers, sewage disposal plant and appurtenances, to English Bros., Lincoln Bldg., Champaign, $489,073. Noted Mar. 15.

Kan., Maryville—Extending sewers, 13,000 ft. 8 in. vitr. clay pipe, to Reed & Weedlock, Clay Center, $29,249.

Neb., Humboldt—Sewers in Dists. 2 and 3, to Asplund Constr. Co., Tecumseh, Neb., $28,552. Noted Feb. 15.

Tex., Greenville—See "Waterworks."

Calif., Riverside — Sewers in various streets, 48,162 lin.ft. 6-24 in. vitr. and 7,930 ft. 18-33 in. rein.-con. pipe, etc., to H. D. Churchill Co., 350 Merrick St., Los Angeles, $117,348. Noted May 10.

SEWERS—TOLEDO, OHIO

Bids were opened by city, Apr. 10, for constructing West Side and Swan Creek Intercepting Sewer, Contr. No. 6, (A) Harris & Tansey, 504 Nasby Bldg., (awarded contract); (B) Graham & Henderson, Cleveland; (C) Byrne Bros., Chicago. The unit bids were as follows:

	A	B	C
Junction manhole No. 37 (lump sum)	$1,100.00	$1,131.50	$810.00
City Park Avenue inverted siphon (lump sum)	40,000.00	49,000.00	50,562.50
Junction manhole No. 44 (lump sum)	1,300.00	980.00	769.15
Junction Avenue inverted siphon (lump sum)	11,000.00	15,700.00	15,045.80
Standard Manholes (concrete) (alternate), 900 ft. of depth	10.00		10.00
Standard manholes (brick) (alternate), 900 ft. of depth	10.00	11.00	11.00
25 standard manhole frames and covers	25.00	25.00	35.50
100 cu.yd. additional earth excavation (open cut), 0 to 10 ft. cut	2.00	1.00	1.50
100 cu.yd. additional earth excavation (open cut) 10 to 15 ft. cut	3.00	4.00	2.00
100 cu.yd. additional earth excavation (open cut), 15 to 20 ft. cut	4.00	2.00	2.50
100 cu.yd. additional earth excavation (open cut), 20 to 25 ft. cut	4.00	2.00	3.00
50 cu.yd. additional earth excavation (open cut), 25 to 30 ft. cut	4.00	3.00	3.50
300 cu.yd. additional earth excavation (tunnel)	1.00	4.00	6.00
50 cu.yd. rock excavation	1.00	8.00	8.00
100 cu.yd. additional class A concrete	15.00	15.00	15.00
300 cu.yd. additional class B concrete	10.00	12.00	14.00
40 cu.yd. additional brick masonry	25.00	20.00	20.00
250 M. ft. B.M. sheeting and timbering left in place	50.00	50.00	50.00
20 M. ft. B.M. timber in foundations	1.00	20.00	50.00
1,500 lin.ft. piles	1.00	.50	1.00
2,000 lb. additional steel reinforcement	.08	.06	.06
100 lin.ft. 8-in. vitrified pipe	1.00	.60	.60
100 lin.ft. 10-in. vitrified pipe	1.00	.85	.80
75 lin.ft. 12-in. vitrified pipe	1.50	1.25	1.10
50 lin.ft. 15-in. vitrified pipe	3.00	1.50	1.50
50 lin.ft. 18-in. vitrified pipe	3.50	2.50	2.00
55 lin.ft. 20-in. vitrified pipe	3.50	3.00	2.50
50 lin.ft. 24-in. vitrified pipe	5.00	4.50	3.25
10 8-in. vitrified specials	2.00	2.50	2.25
10 10-in. vitrified specials	2.00	3.00	2.50
10 12-in. vitrified specials	3.00	3.50	3.00
10 15-in. vitrified specials	5.00	4.50	4.50
5 18-in. vitrified specials	6.00	5.00	5.50
5 20-in. vitrified specials	7.00	6.00	7.50
2 24-in. vitrified specials	10.00	8.00	10.00
5,000 cu.yd. special tamping	1.00	.75	1.00
300 lin.ft. removing and relaying or rebuilding curb and gutter	.50	1.00	1.25
2,200 sq.ft. removing and relaying or rebuilding sidewalk	.25	.25	.30
225 sq.yd. removing and relaying or rebuilding brick pavement on concrete base	6.00	4.00	4.00
25 sq.yd. removing and relaying or rebuilding brick pavement on no foundation	1.00	.00	2.00
10 sq.yd. removing and relaying or rebuilding granite block pavement on concrete base	6.00	6.00	5.00
75 sq.yd. removing and rebuilding asphalt pavement on concrete base	6.00	5.00	4.50
25 sq.yd. removing and relaying or rebuilding cablestone pavement	1.00	1.00	2.00
2,295 lin.ft. 75-in. circular sewer tunnel, using monolithic concrete	29.50	27.00	29.40
2,155 lin.ft. 72-in. circular sewer tunnel, using monolithic concrete	29.50	26.50	28.15
4,940 lin.ft. 69-in. circular sewer tunnel, using monolithic concrete	24.50	25.00	25.60
1,970 lin.ft. 66-in. circular sewer tunnel, using monolithic concrete	24.50	24.50	26.85
4,575 lin.ft. 51-in. circular sewer tunnel, using monolithic concrete	19.50	19.00	17.90
1,050 lin.ft. 39-in. circular sewer tunnel, using monolithic concrete	11.00	18.50	17.35
450 lin.ft. 39-in. circular sewer, open cut, using monolithic concrete	12.00	22.00	16.00
Extended totals using brick manholes	$500,253		$524,147
Extended totals using concrete manholes	$500,253	$513,573	$525,047

Bridges

PROPOSED WORK

North Carolina—State Hy. Comn., Raleigh, having plans prepared and soon takes bids rein.-con. bridges and culverts in Caldwell, Scotland, Rowan, Mitchell, Buncombe, Bladen, Iredell, Randolph, Guilford, Martin, Halifax, Edgecombe and Gates Counties, $887,300. C. M. Upham, state highway engr.

Fla., Ft. Myers—Lee Co. plans 400 ft. concrete and timber bridge, steel draw span, over Caloosahatchee River, 5,200 lin. ft. earth approach and fill, etc. $150,000. J. E. Garner, clk.

Alabama—State Hy. Dept., Montgomery, had plans prepared 512 lin.ft. concrete girder bridges on Oneonta Village Springs Rd., Blount Co. W. S. Keller, state highway engr.

Ky., Louisville—Bd. Park Comrs. plans Bridge 6, near Barnet Hill in Cherokee Park, concrete with stone coping. $25,000. Olmsted Bros., Brookline (Boston P. O.), Mass., archts.

Ky., Madisonville—Hopkins Co. plans 130 ft. steel truss highway bridge over Pond River on Calhoun-Ashbysburg Rd. $35,000. J. E. Hopkins, Ashbysburg, secy. Bd. Comrs.

Indiana—State Hy. Comn., Indianapolis, had plans prepared 227 bridges in 59 counties. $3,214,400 of which $1,045,660 is Federal aid. W. J. Titus, bridge engr.

Wis., Milwaukee—Rejected bids widening Folsom Pl. Bridge. $130,000-$150,000. Will readvertise soon. J. Schwada, City Hall, engr. Noted May 10.

Minnesota—See "Streets and Roads."

Kan., Marion—Marion Co. had plans prepared Mill bridge, steel and concrete, 120 ft. Marsh arch span, 20 ft. roadway. Marsh Eng. Co., 205 Masonic Temple Bldg., Des Moines, Ia., engrs.

Tex., Brownwood—Brown Co. election May 26, to vote on $35,000 for bridge. R. A. Nichols, Georgetown, engr.

Bridges (Continued)

BIDS DESIRED

N. Y., Norwich—May 28, by S. C. Nelson, Jr. clk. joint bodies, town board of town of Norwich and Common Council of city of Norwich, City Hall, constructing South Broad St. bridge, over Canasawacta Creek. E. F. Musson, city engr.; adv. this issue. Noted Apr. 5.

N. J., Newark—May 22, by G. C. Bergen, purch. agt. Essex Co., Court House, rein.-con. I-beam bridge over Canoe Brook, Northfield Rd., Livingston, also rein.-con. extensions to bridge on Hobart Gap Rd. 200 ft. south of South Orange Ave., Livingston, $25,000. W. A. Stickel, Court House, engr. Noted May 3.

Tennessee—See "Streets and Roads."

Ohio—See "Streets and Roads."

Kan., Hutchinson—May 24, at office F. R. Lutz, clk. Reno Co., Haven Bridge, Project 156, twelve 40 ft. deck spans, 1,550 cu.yd. concrete, 132,842 lb. reinforcing, etc., alternate bid for six 80 ft. arch spans, 1,281 cu.yd. concrete, 107, 475 lb. reinforcing, etc.; constructing 9.4167 mi. approaches to Haven Bridge.

Kan., Wellington—May 23, at office A. E. Alexander, clk. Sumner Co., bridges on Meridian Highway, Sect. W, Project 35, Chikaskia Bridge 1, Alternate 1 six 50 ft. deck girder spans, Alternate 2 three 100 ft. through arch spans; Ninnescah Bridge 2, Alternate 1 six 50 ft. deck girder spans, Alternate 2 four 65 ft. through arch spans, Alternate 3 three 100 ft. steel truss spans; Bluff Creek Bridge 3, Alternate 1 four 45 ft. deck girder spans, Alternate 2 two 90 ft. through arch spans.

South Dakota — May 22, by State Hy. Dept., Pierre, one 34 ft. concrete viaduct Davison Co., one 45 ft. concrete viaduct and one 30 ft. I beam bridge, Lake Co., one 104 ft. concrete and steel viaduct McCook Co., one 45 ft. concrete viaduct Aurora-Brule Counties, 5 concrete and steel bridges Lawrence-Meade Counties, two 45 ft. viaducts, Miner Co. F. D. Hudgins, state engr.

Wyoming—See "Streets and Roads."

Wyoming—May 22, by State Hy. Comn., Cheyenne, 133 ft. timber trestle and 80 ft. steel span, on Federal Aid Project 139, Lusk-Newcastle Rd., Niobrara Co. $25,000. J. F. Seiler, state bridge engr.

California—May 28, by State Hy. Comn., Sacramento, bridge across Arroyo Seco Creek near Shellville, Sonoma Co., two 40 ft rein.-con. girder spans, 28,000 lb. reinforcing, etc. R. M. Morton, state highway engr.

Calif., Santa Rosa — May 22, by City Council bridge over Santa Rosa Creek on A St., 28,000 cu.ft. concrete with necessary excavation and paving approaches. $27,000. L. L. Mills, city engr.

BIDS RECEIVED

Ohio—See "Streets and Roads."

Mich., Lansing—Rein.-con. arch bridge over Grand River on Seymour St., from Townsend, Shuttleworth & Balmer, 306 South Capitol St. $52,203. Noted Apr. 19.

Colorado — State Hy. Dept., Denver, bridge on Sta. 45, Gunnison Co., from Winterburn & Lumsden, Grand Junction, $48,248. Noted May 3 under Streets and Roads.

Calif., San Anselmo—For bridges in various sections of town, from W. L. Proctor, Rosenberg Bldg., Santa Rosa, $55,393. Noted Apr. 12.

CONTRACTS AWARDED

Alabama—State Hy. Dept., Montgomery, 624 ft. bridges on Evergreen-Belleville Rd., Conecuh Co., one 65 ft. steel span, remainder treated timber on treated timber piles, 18 ft. roadways, to Bosworth-Smith Co., Montgomery, $35,021; 342 bridges on road from Dale Co. line to Florida State Line, Houston Co., treated timber on treated timber piles, 18 ft. roadways, and 638 ft. bridges on Florala-Opp-Audalusia Rd., Covington Co., one 80 ft. steel span, remainder treated timber on treated timber piles, 18 ft. roadways, to Stanley & Singer Constr. Co., Lafayette, $23,794 and $33,339 respectively. Noted Apr. 19.

Alabama—State Hy. Dept., Montgomery, 914 ft. bridge on Alexander City-Jacksons Gap Rd., Florida Short Route, near Sturdivant, Tallapoosa Co., six 150 ft. steel spans complete in place with concrete floor, to Virginia Bridge & Iron Co., 3900 8th Ave. N., Birmingham, $81,528; concrete piers for above, to Hardaway Contg. Co., Columbus, Ga., (street address not available), $55,638. Noted May 10.

Wis., Conrath—Rush Co., constructing bridge, three 128 ft. steel spans, rein.-con. foundation, at junction of Flambeau and Chippewa Rivers, here, to H. E. Warden Co., Eau Claire, $32,654.

Ia., Cherokee—Cherokee Co., to Miller & Johnson, Humboldt, 38 box culverts, 12 I-beams and 2 pony trusses, $47,935; to Humphrey & Son, Cherokee, one I-beam, $6,949, concrete figures $20.07.

Ia., Greenfield—Adair Co., 3 span concrete bridge to have two 55 ft. and one 80 ft. deck arch spans, 24 ft. roadway, over Chicago, Rock Island & Pacific R.R. tracks, here, to Federal Bridge Co., 1001 Bankers Trust Bldg., Des Moines, $42,263. Noted May 10.

Ia., Manchester—Delaware Co., 8 concrete box culverts, 3 I-beam and 1 pony truss span, to Parsons & Meyer, Dyersville, $25,693, concrete figures $21.04.

Ia., Sigourney—For 67 concrete box culverts and extensions on Primary Bridge Project 149, to Currie-Simpson Co., 218 L and J Bank Bldg., Waterloo, $33,119 (concrete figures $21.24).

Ia., Waukon — Allamakee Co., Primary Bridge Project 141, one 20 x 175 ft. high truss with one 20 x 80 ft. approach and one 20 x 100 ft. skew pony truss with two 20 x 40 ft. approaches, to Currie-Simpson Co., 218 L. & J. Bldg., Waterloo, $47,800 (concrete figures $29.68).

Ia., Webster City—Hamilton Co., Primary Bridge Projects 9, 41, 103 and 104, to J. R. Stevens Co., Anamosa, 1 deck girder, and 1 slab bridge, 1 box culvert $6,812; to Hirt & Wilson, Woolstock, 12 box culverts $6,020; to A. Swanson Co., Webster City, 16 box culverts, 3 I-beams and 1 deck girder span $20,300, concrete figures $18.97 to $24.65.

South Dakota—State Hy. Dept., Pierre, three 94 ft. through Howe truss spans, on Project 72, Fall River Co. and one on Project 88B, Meade Co., to Concrete Eng. Co., Rapid City, $18,951, and $2,514 respectively; bridge on Project 126, Kingsbury Co. and one on Project 136, Hamlin Co., to Great Northern Bridge Co., 225 Kasota Bldg., Minneapolis, Minn., $4,746 and $4,184 respectively; bridge on Project 74, Corson Co., to Western Bridge & Constr. Co., 748 Peters Trust Bldg., Omaha, Neb., $5,373; bridge on Project 49B, Lyman Co., to D. D. Bidwell, Eagan, $17,168; bridges on Project 129, Turner Co., to Babcock Bros., Winnebago, Minn., $25,099.

Dams

PROPOSED WORK

Pa., Phila.—Fairmount Dam in Schuylkill River, from McLean Constr. Co., Pier 5, N. Wharves, $628,000. Noted Apr. 26.

N. Y., Phila.—See "Miscellaneous."

Mich., Iron Mountain—See "Industrial Works" under Contracts Awarded.

Wis., Chippewa Falls—See "Industrial Works."

Calif., Oakdale—Oakdale and South San Joaquin Irrigation Dists. plan to vote on $112,500 bonds to purchase site for Melones Dam.

Quebec—See "Miscellaneous."

BIDS DESIRED

N. H., Claremont—See "Waterworks."

Railways

PROPOSED WORK

Illinois—Chicago, Burlington & Quincy R.R., 547 West Jackson Blvd., Chicago, plans railroad from Frederick to Vermont. $1,800,000. A. W. Newton, ch. engr.

New Brunswick—Beaver Coal & Ry. Co., Beersville, plans 15 mi. line from Adamsville to Coalville. H. Burchell, ch. engr.

Ontario—Temiskaming & Northern Ontario Ry., North Bay, takes in June, 20 mi. branch line from Swastika to Lardner Lake, and in July or August for extending main line north to James Bay. S. B. Clement, ch. engr.

CONTRACTS AWARDED

Minnesota — Great Northern Ry., 175 East 4th St., St. Paul, to Baumgardner & McMenemy, 302 Central Bank Bldg., St. Paul, enlarging yards at Willmar, $25,000, also broadening road bed from 60 to 80 ft., between Kandiyohi and Atwater, 8 mi. Cost of second track laying $300,000. Company furnishes steel.

California—Southern Pacific Co., Southern Pacific Bldg., San Francisco, excavation for 12 mi. track, 85,000 cu.yd., from Mojave to Cameron (Kern Co.), to Utah Constr. Co., Phelan Bldg., San Francisco.

Excavation, Drainage Irrigation

PROPOSED WORK

Okla., Eufaula—Deep Fork Dist. 1, having plans prepared deepening, straightening and widening Deep Fork Creek for 30 mi. in McIntosh Co., 2,000,000 yd. floating dredgework. $500,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Pauls Valley—Wildhorse D. D. having plans prepared ditching and straightening 20 mi. Wildhorse Creek, 600,000 yd. floating dredgework. $140,000. R. J. Wheeler, Wynnewood, engr.

Calif., Tracy—Banta-Carbona Irrigation Dist. having report prepared by W. D. Harrington, consult. engr., Tracy, for system to irrigate 20,000 acres.

BIDS DESIRED

New Jersey—May 31, by T. J. Headlee, executive officer, Entomology Bldg., Bleecker Pl., New Brunswick, cutting 50,000 lin. ft. 10 in. ditch in salt marshes, Ocean Co.; 70,000 lin.ft. 10 in. ditch, 30 in. deep, Cape May Co.

BIDS RECEIVED

Calif., Meridian—Recl. Dist. 70, 141,313 ft. ditch and lateral excav., 18,000 ft. main canal excav., etc., from H. T. Reupke, Box 421, Los Banos, $33,222.

CONTRACTS AWARDED

Mont., Red Lodge—Red Lodge—Rosebud Irrigation Dist., canal and laterals, 300,000 cu.yd. excav., 2,500 sq.yd. paving, 2,000 lin. ft. corrugated metal pipe, 700 lin.ft. vitr. pipe, 3,600 lin.ft. flume, etc., to J. S. Haley, 119 West Lamme St., Bozeman, $216,381. Noted Jan. 18.

Tex., Houston—Harris Co. D. D. 12, Court House, 27,000,000 cu.yd. excav., ditch on Brays Bayou, to Howard Kenyon Constr. Co., Forrest Hill Blvd., $400,000. Noted Apr. 19.

Ore., Eugene—Widening city power plant canal, 135,000 cu.yd. wet earth and 15,000 cu.yd. rock excav., to Morrison-Knudsen, Railroad and Reclamation Ave., Boise, Idaho, $55,727.

Streets and Roads

PROPOSED WORK

Maine—State Hy. Comn., Augusta, plans gravel surfacing 2.92 mi. road in Washington Co., $63,828, Federal aid $31,914. P. D. Sargent, ch. engr.

New Hampshire—State Hy Comn., Concord, plans paving 0.55 mi. road, bituminous macadam on crushed stone, in Belknap Co., $15,000, Federal aid $7,500; 0.82 mi. bituminous macadam, in Rockingham Co., $20,357, Federal aid $10,179; 0.43 mi. gravel, in Coos Co., $17,000, Federal aid $6,988. F. E. Everett, state highway engr.

Rhode Island—State Bd. of Pub. Roads, Providence, plans rein.-con. paving 5.55 mi. road, Washington Co. $293,688. Federal aid $90,188.

Connecticut—State Hy. Dept., Hartford, appropriated $2,000,000 for repair of highways. C. J. Bennett, state highway comn.

Conn., Wethersfield — Fire Dist. Comn. plans laying 2.7 mi. concrete walks. $27,000. E. H. Ferr, member of comn.

N. Y., Hornell — Plans macadamizing Armory Pl., Preston Ave., Fulton, West Genessee, Wells, East Elm and Ontario Sts. also brick paving Park and Taylor Sts. $150,000. F. H. Robinson, city engr.

N. Y., Perry—Making plans concrete paving 7 streets. $50,000. R. H. How, village engr. Noted Apr. 5.

N. Y., Rochester—Plans paving Riverbank Pl., Barton and Coventry Sts., willite, $48,200; Union, Hamilton, Chandler and Marion Sts., asphalt, $77,000; resurfacing Reynolds St., Buena Pl. and Avondale Park, asphalt, $34,800; widening Main St. 12 ft. asphalt, $63,300; Tarvia surface treatment on Latta Rd., $2,500; walks and grading Bradfield St., $9,500; sewer in Portland Ave., $8,200. C. A. Poole, city engr.

N. Y., Saranac Lake—Bd. Village Trustees plans brick or concrete pacing Cedar and Helen Sts. $35,000-$40,000.

New Jersey—State Hy. Dept., Trenton, plans concrete paving 4 mi. road between Bordentown and Crosswicks Creek, known as part of Route 2, Burlington Co. $220,000. W. G. Sloan, Broad St. Bank, engr.

N. J., Camden—Camden Co. plans concrete paving 5.5 mi. River Rd. and Cuthbert St., 20 ft., $210,000. J. J. Albertson, co. engr.

N. J., Flemington—Hunterdon Co. plans repairing 63 mi. roads. $94,907. G. Davis, Whitehouse Sta., engr.

N. J., Princeton—State Hy. Dept., Trenton, plans concrete paving 0.6 mi. Bayard Lane, here, $36,000. W. G. Sloan, Broad St. Bank, Trenton, engr.

Pa., Erie—Plans asphalt pavements on 21st and 31st Sts. $25,400. F. G. Lynch, city engr.

Pa., Johnstown—City Comrs. open bids about June 20, paving 17 streets and alleys, 10,000 ft. concrete and brick. H. L. Wilson, city engr.

Va., Richmond—Plans paving Broad St. and Oakwood Ave. $500,000 bond issue authorized.

Streets and Roads (Continued)

W. Va., Philippi—City Council plans concrete paving and curbing Mason, Bosworth, Wabash and Maple Sts., et al. $48,500. I. R. Murphy, clk.

North Carolina—State Hy. Comn., Raleigh, had plans prepared and soon takes bids, clearing, grading and concrete or asphaltic paving 105.38 mi. roads in Green, Perquimas, Franklin, Harnett, Guilford, Montgomery, Randolph, Iredell, Rockingham, Edgecombe, Richmond, Rowan, Scotland and Burke Counties, $3,627,400; clearing, grading and topsoiling or gravel surfacing 232.35 mi. roads in Edgecombe, Beaufort, Nash, Martin, Halifax, Gates, Northampton, Bladen, Robeson, Granville, Warren, Caldwell, Stokes, Alleghany, Mitchell, Surry, Person and Orange Counties, $1,414,100; clearing, grading and waterbound or bituminous macadam surfacing 16.97 mi. roads in Guilford, Yancey and Buncombe Counties, $402,000. C. M. Upham, state highway engr.

North Carolina—State Hy. Comn., Raleigh, having surveys made clearing and grading 16 mi. road from Hayesville to Macon Co. Line, Route 28, State Project 922, Clay Co., $80,000, 15.9 mi. road from Clay Co. line to Franklin on Route 28, State Project 965, Macon Co., $78,000. Work will be done by counties. C. M. Upham, state highway engr.

North Carolina—State Hy. Comn., Raleigh, having surveys made grading and concrete or asphaltic paving 21.8 mi. roads in Pamlico and Greene Counties, $685,000; reconstructing 16.6 mi. road from Asheboro to Chatham Co. line, Route 75, State Project 582, Randolph Co., $30,000. C. M. Upham, state highway engr.

N. C., Durham—Bd. Aldermen authorized $300,000 bonds for additional street paving. R. W. Rigsbee, city mgr.

S. C., Gaffney—Cherokee Co. Highway Comn. having surveys made grading and topsoiling 10 or 12 mi. road. C. W. Wannamaker, co. engr.

S. C. Gaffney—Had estimates prepared concrete curbing, guttering and sidewalks in Wards 1, 3 and 5, 24,500 lin.ft. combined concrete curb and gutter, 8,400 sq.yd. 4 in. concrete sidewalks, etc. $54,000. H. Beebe, Spartanburg, engr.

S. C., Spartanburg—Plan to vote on $75,000 bonds curbing, guttering and sidewalks on Bomar, Holmes, Palisade, Smith, Seay and Spring Sts., et al. P. J. O. Smith, supt. streets.

Ala., Atmore—Having plans prepared paving streets and sidewalks. $50,000. R. L. Totten & Co., B-M Bldg., Birmingham, engrs.

O., Columbus—Making plans grading, curbing, laying necessary water services and sewer connections and paving 2,152 ft. Southwood and Washington Aves., brick or asphalt; 248 ft. 8 in. sanitary sewer in alley west of Taylor Ave. R. H. Simpson, city engr.

O., Dover—Plans resurfacing 3rd and Factory Sts., $21,250; paving 11th St., sheet asphalt or Kentucky rock asphalt on concrete, $20,000.

O., Lisbon—Columbiana Co. plans resurfacing 4 mi. Canton-Lisbon Rd.; surfacing 1.25 mi. East Rochester-Georgetown Rd., 14 or 16 ft., macadam, $28,000; grading 2.23 mi. Summitville-Milport-Gavers Rd., 16 ft., Franklin Twp., $26,500. L. C. Kirk, Court House, engr.

O., Montville—Montville Twp. plans improving North and South Montville Center Rd., here. $25,000. W. H. Lehman, clk.

O., Upper Arlington (Columbus, P. O.)—Making plans grading, laying sewers and asphalt paving 31,250 ft. Arlington Ave., Kensington and Southway Drives, North and South Parkways, Andover, Waltham, Wickford, Oxford, Club, Westover, and Guilford Rds., 18-37 ft. wide. $282,000. D. Sayre, 52 West Gay St., engr.

Ind., Indianapolis—Marion Co. received no bids grading and graveling 7 mi. Schaefer Rd., 18 ft. $78,489. Will revise and readvertise. J. J. Griffith, co. engr. Noted Apr. 19.

Ind., Jeffersonville—Clark Co. plans gravel surfacing 8.81 mi. Wm. D. Taylor County Rd., in Owen and Washington Twps. $85,186. K. P. Barnes, co. surv.

Ind., Laporte—Laporte Co. plans grading and graveling 2.75 mi. Rogers Rd. and 2.9 mi. Bluhm Rd., 18 ft., $25,994 and $26,530 respectively. P. Summy, Laporte, engr.

Mich., Detroit—Having plans prepared paving 5 streets, 14,990 sq.yd. sheet asphalt on concrete, $87,960, also 5 alleys, 9,260 sq.yd., 1 course 6 in. concrete, $23,800. J. W. Reid, city engr.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, plans grading 15.102 mi. and hard surfacing 35.195 mi. $715,034 (Federal aid $203,739) and $1,051,400 (Federal aid $525,700) respectively. C. H. Older, ch. highway engr.

Ia., Cresco—Howard Co. plans gravel surfacing 10.486 mi. Federal Aid Project 190, Howard Co., $84,965 (Federal aid $42,000).

Ia., Elkader—Clayton Co. plans grading 9.25 mi. Federal Aid Project 166, $29,658 (Federal aid $14,800).

Ia., Le Mars—Plymouth Co. plans grading 17.8 mi. Federal Aid Project 192, $167,426 (Federal aid $83,700).

Ia., Shenandoah—Making plans paving 50 blocks, asphalt or concrete. R. L. Keltner, Shenandoah, engr.

Minnesota—Following are county appropriations for road and bridge construction during 1923: Becker Co., $24,976, P. Gunstad, Detroit, engr.; Cook Co., $24,939, J. E. Smith, Grand Marais, engr.; Douglas Co., $65,290, A. Webster, Alexandria, engr.; Koochiching Co., $64,965, A. B. Peterson, International Falls, engr.; Sherburne Co., $28,150, E. E. Chase, Elk River, engr.; Sibley Co., $59,942, E. R. Patterson, Gaylord, engr.; Stevens Co., $25,038, W. A. Hunt, Morris, engr.; Wabasha Co., $89,372, G. A. Larson, Wabasha, engr.

Minn., Duluth—St. Louis Co. making plans and takes bids about July 6, concrete surfacing State Rds. 1, 2, 3, 6 and 35 from Duluth to iron mining districts. $1,500,000. A. W. Acton, co. engr.

Minn., St. Paul—Plans paving 1 mi. 6th St. from Summit Ave. to bridge over Mississippi River. $152,750. G. M. Shepard, city engr.

Kan., Emporia—Lyons Co. making plans paving 2 mi. Neosho Rapids Spur, 18 ft., brick or concrete. W. S. Ruggles, co. engr.

Kan., Oswego—Labette Co. had plans prepared surfacing 7.9 mi. Project 126, Sect. A, Joplin-Denver Rd., gravel or bitulithic macadam, 33,130 cu.yd. excav., etc.

Mo., Gallatin—See "Sewers."

Okla., Davis—Having plans prepared grading and paving 7 blocks Main St., 40 ft. 15,000 sq.yd. concrete. $65,000. E. T. Archer & Co., New England Bldg., Kansas City, Mo., engrs.

Okla., Tulsa—Tulsa Co. election June 12, to vote on $2,000,000 bonds for 700,000 sq. yd. concrete paving. D. W. Patton, Court House, engr.

Okla., Wynnewood—Plans grading, curbing and paving with brick and concrete 7 blocks Commercial Ave. and Averytt St., 26 ft. $75,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Colo., Denver—Plans paving 12 blocks in Alley Paving Dist. 99, $27,360; 12 blocks Alley Paving Dist. 100, $25,486; 12 blocks Alley Paving Dist. 101, $25,338; all foregoing 16-20 ft. A. K. Vickery, City Hall, engr.

Nevada—State Hy. Dept., Carson City, plans gravel surfacing 2.4 mi. Federal Aid Project 76, Humboldt Co. $49,363. (Federal aid $43,054).

Wash., Kelso—Soon takes bids concrete paving Oak, Grade, 3rd, 4th, 5th and Academy Sts., 13 blocks. $39,543. M. J. Lord, city clk.

Oregon—State Hy. Comn., Salem, plans grading and surfacing 5.75 mi. Federal Aid Project 98, Lincoln Co. $243,157 (Federal aid $105,461).

Calif., Alameda—Having plans prepared re-oiling, scarifying and resurfacing 8 mi. streets. B. Hamilton city engr.

Calif., Berkeley—Had estimates prepared continuing Tunnel Road through Berkeley. $61,000. C. L. Huggins, city engr.

Calif., El Cerrito—Had plans prepared grading, concrete curbing, guttering, sidewalks and paving portion Potrero Ave., 14,234 sq.ft. cement walks, 30 554 sq.ft. 8 in. oil macadam paving, etc. W. S. Farley, Monadnock Bldg., San Francisco, engr.

Calif., Huntington Beach—Soon takes bids paving 2 mi. Ocean Blvd., 1 mi. 80 ft. wide, other 20 ft. To exceed $100,000. Noted Jan. 25.

Calif., Los Angeles—Had plans prepared grading and paving 3,200 lin.ft. road between Hyperion Sewage Treatment Plant and Coast Blvd., 34,133 cu.yd. excav., 63,766 sq.ft. concrete.

Calif., Redwood City—Soon takes new bids grading, concrete surbing, guttering and oil macadam paving streets in Redwood Highlands. Former bids rejected. Noted May 10.

Calif., Santa Cruz—Had plans prepared grading and paving Younglove Ave., 38,840 sq.ft. grading, 34,840 sq.ft. concrete pavement, etc. J. K. James, city engr.

Ont., Kingston—Frontenac Co. plans to spend $78,000 on grading, graveling and macadamizing roads, etc. Some of work will be done by day labor and some by contract. R. H. Fair, co. engr.

BIDS DESIRED

Connecticut—May 22, by C. J. Bennett, state highway comr., Hartford, concrete paving 7,166 lin.ft. road in Berlin, West Hartford, Groton and Winchester; 11,700 lin.ft. 7 in. native stone macadam in Groton and Danbury; 2,400 lin.ft. bituminous macadam in Waterford; adv. this issue.

Conn., New Haven—May 21, at office of E. S. Nettleton, city engr., paving State St., 2,600 sq.yd. with sheet asphalt and 1,900 sq.yd. with granite block.

N. Y., East Rockaway—May 24, by Bd. Village Trustees, approximately 36,000 sq. yd. concrete paving. C. E. Marshall, Hempstead, consult. engr.

N. Y., Lockport—May 22, by F. Krull, clk. Bd. Supervs. Niagara Co., concrete paving 17.648 mi. Roads 48, 44, 42, 47, 43, 45 and 9, $235,000; bituminous macadamizing 4.644 mi. Road 46 in town of Newfane, $60,000. T. Brennan, co. engr.

N. Y., New York—May 22, by J. Miller, pres. Manhattan Boro. Municipal Bldg., sidewalks around subway grating on southerly portion of island at intersection of Bway. and 7th Ave. from 46th to 47th Sts.; curbing, recurbing, flagging, reflagging and sheet asphalt paving West 213th St.

N. Y., New York—May 24, by Park Bd. Municipal Bldg., constructing road and paths, etc. from Eastern Blvd. to City Island Rd., in Pelham Bay Park, Bronx Boro. F. D. Gallatin, pres.

N. Y., St. George—May 23, by J. A. Lynch, pres. Richmond Boro. Boro Hall, grading and granite block paving, etc. Marginal St.

New Jersey—June 4, by State Hy. Dept., Trenton, rein.-con. paving roads in Monmouth, Middlesex, Morris and Warren Counties. A. L. Grover, ch. clk.; adv. this issue.

N. J., Audubon—May 22, by Boro Comrs. concrete paving various streets. J. J. Albertson, Court House, Camden, boro engr.; adv. this issue.

N. J., Newark—May 22, by G. C. Bergen, purch. agt. Essex Co., Court House, supplying and applying asphaltic road oils on designated roads, not less than 10,000 gal. nor more than 60,000 gal. W. A. Stickel, Court House, engr.

N. J., Newark—May 24, at office of T. I. Raymond, dir. Dept. Streets and Pub. Impvts., City Hall, grading, curbing, flagging and asphalt paving Caroline and Vassar Aves., $74,600; asphalt paving 20,550 sq.yd. Maple Pl., Leslie and Boylan Sts., Vermont, Lindsley, 13th and Irving Aves., $133,530.

N. J., Red Bank—May 21, by A. L. Miller, mayor, and Boro Council, reconstructing Beach St., Wharf Ave., Bergen and Irving Places, rein.-con. G. D. Cooper, 60 Broad St., civil engr.; adv. this issue.

N. J., Red Bank—June 1, Boro Council, concrete paving Branch Ave. G. K. Allen, Jr., 60 Broad St., boro engr.; adv. this issue.

Pa., Phila.—May 18, by Director Pub. Wks., asphalt and granite block pavement on various streets. $300,000. F. C. Dunlap, City Hall, engr.

Pa., Rockwood—May 28, by Boro. Council, grading, paving and curbing 3,000 ft. Market St., concrete or brick. $50,000. Fluck & Smith, Somerset, engrs.

Pa., Washington—May 25, by Supervs. Jefferson Twp., paving 16,158 ft. Jefferson Twp. Rd., bituminous macadam on rein.-con., 16 ft. $25,000. M. D. Ridgeway, Eldersville, engr.

Pa., Williamsport—June 5, by Comrs. Lycoming Co., grading and surfacing 4.2 mi. road. M. C. Krause, Williamsport, consult. engr.; adv. this issue.

Maryland—May 29, by State Rds. Comm., Baltimore, paving 3.17 mi. Contrs. G-23, M-44, Wo-30, Garrett, Montgomery and Worcester Counties, concrete; 5 mi. Contrs. 141-A and 46-A, Montgomery and Baltimore Counties, concrete shoulders; 11.6 mi. Contr. W-27, Washington Co., macadam rein.-con. J. N. Mackall, chn.; adv. this issue.

Florida—May 29, by State Rd. Dept., Tallahassee, constructing 8 in. rock base on 11.81 mi. Rd. 125, Project 534, Brevard Co.; hard surfacing 2 mi. Rd. 125, Project 584, Osceola Co. W. F. Cocke, state highway engr.

Fla., Bradentown—June 8, paving Cherokee and Central Sts., asphalt blocks or other asphaltic materials, $25,000; paving Sunset Dr., East Court, Ohio and Sarasota Aves., tarvia coating on shell base compacted, $25,000; curbing, sidewalks, relaying and widening paving on various streets, $25,000. Kirley & Myler, Bradentown, will probably be engineers.

Ala., Geneva—May 21, 40,992 sq.yd. concrete sidewalks, 7,111 lin. ft. curb and

Streets and Roads (Continued)

gutter, 22,558 sq.yd. sheet asphalt, concrete or bitulithic paving. A. S. Hendricks, clk.

Ky., Paducah—June 1, by H. A. Pulliam, comr. Pub. Wks., 67,000 sq.yd. street paving; adv. this issue. Noted May 10.

Ky., Shelbyville—June 7, by Bd. Council, reconstructing Main St. from 1st to 4th Sts. and from 11th St. to Adair Ave., concrete or rock asphalt on concrete. $25,000. G. Wright, city councilman.

Tennessee—May 25, by State Dept. Highways & Pub. Wks., Nashville, grading and bridging 19.9 mi. State Aid Project 114, Grundy Co., 96,320 cu.yd. common excav., etc. J. C. Creveling, Jr., Nashville, comr.

Ohio—May 23, by Comrs. Franklin and Delaware Counties, at Columbus, grading and macadamizing with waterbound macadam (bituminous surface treatment) 4.69 mi. Franklin-Delaware Co. line Rd., 16 ft. $76,508. M. W. Westlake, clk. of joint bd.

Ohio—May 25, by Dept. Highways and Pub. Wks., Columbus, grading, bridging, curbing and paving 62.486 mi. roads in Ashland, Clark, Hancock, Harrison, Henry, Hocking, Holmes, Huron, Lake, Logan, Jefferson, Mahoning, Miami, Ottawa and Shelby Counties, brick, rein.-con., bituminous macadam asphalt or tar, bituminous gravel, or plain concrete; bridges in Lorain and Van Wert Counties, $31,212. L. C. Herrick, dir.

O., Bellaire—June 5, by G. T. Kreglow, dir. Pub. Serv., grading, curbing, vitr. brick paving, etc., South Belmont St. $50,000. H. C. Althar, Bellaire, engr.

O., Cincinnati—May 25, Bd. Comrs. Hamilton Co., paving, etc., 6,691 ft. Liston Ave., 24 ft., 6,400 lin.ft. granite curb, 33,000 sq.ft. cement sidewalks, 1,250 lin.ft. 30 in. brick and 4,460 lin.ft. vitr. sewers, 17,550 sq.yd. bitoslag or bitulithic, 18,180 sq.yd. concrete base. $181,827. E. A. Gast, Court House, co. surv.

O., Cleveland—May 23, grading, curbing and paving Buckeye Rd., East 82nd and East 17th Sts., Euclid and Woodland Aves. $300,000. R. Hoffman, City Hall, engr.

O., Euclid—May 21, grading and laying stone or concrete sidewalks on Fordview, Hartland, Colburn and Alberton Rds. To exceed $25,000. F. A. Pease Eng. Co., Marshall Bldg., engrs.

O., Massillon—May 23, repaving 32,000 yd. Main St., brick, sheet asphalt or asphaltic concrete. C. E. Rice, engr.

O., Shaker Heights (Cleveland, P. O.)—See "Sewers."

O., Shaker Heights (Cleveland, P. O.)—May 24, grading, and brick or asphalt paving East 157th and East 159th Sts., Norwood, Normandy and Daleford Rds. $100,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Ind., Indianapolis—May 21, by Auditor Marion Co., concrete paving 78,643 sq.yd. Michigan Rd. $204,672. J. J. Griffith, co. engr. Noted May 10.

Ind., Laporte—May 24, by Auditor Laporte Co., grading and graveling 2.3 mi. H. H. Pinney Rd., 20 ft. $25,989. P. Summy, Laporte, engr. Noted May 10.

Ind., Jeffersonville—Bd. Comrs. Clark Co. taking bids and opens same about May 26, constructing 4.78 mi. George Lindemeyer Rd., Oregon Twp. $46,776. K. W. Barnes, co. surv. Noted May 3.

Mich., Grand Rapids—May 22, by Kent Co. Rd. Comn., grading and surfacing 2.783 mi. road, Kent Co., 16,472 cu.yd. excav., 26,407 sq.yd. gravel. O. S. Hess, co. engr.

Ill., Havana—May 23 by Bd. Local Impvts., grading and concrete paving Dists. H. I. J and K, 8,798 cu.yd. excav., 22,091 sq.yd. pavement, 12,286 lin.ft. outside curb, etc. G. Coleman, member. Noted Apr. 26.

Wisconsin—May 23, by State Hy Comn., at div. office 7, Court House, Rhinelander, grading and surfacing Rhinelander-Cassian-Tomahawk Rd., Oneida Co., 4,395 cu.yd. topsoiling, 7,975 cu.yd. gravel, etc.; Rhinelander-Prentice Rd., Price Co., 8,305 cu.yd. gravel; Koepenick-Pelican Rd., Langlade Co., Sect. A, 5,728 cu.yd. gravel, Sect. B, 5,737 cu.yd. gravel, Sect. C, 7,589 cu.yd. gravel; Kempster-Summit Lake Rd., Langlade Co., 3,536 cu.yd. gravel; Minocqua-Mercer Rd., Iron Co., Sect. A, 4,241 cu.yd. gravel, Sect. B, 6,500 cu.yd. gravel. A. R. Hirst, Madison, state highway engr.

Wis., Milwaukee—May 21, paving Clinton, Jefferson, Lake and 3rd Sts., 14,000 sq.yd. granite block, 10,600 sq.yd. sandstone. G. Staal, city engr.

Ia., Clinton—May 25, by Auditor Clinton Co., grading 4 mi. Lyons-Hauntown Rd. and 2 mi. primary road, northwest of Delmar, 26 ft., 114,488 cu.yd. earth and 2,000 cu.yd. solid rock excav. $30,000. E. B. Lorenzen, co. engr.

Ia., Rock Rapids—May 24, by Auditor Lyon Co., grading 15.547 mi. Doon-Big Sioux River Rd., 26 ft., 230,000 cu.yd. excav., etc. $55,000. R. H. Fuller, co. engr.

Ia., Wapello—May 21, paving, curbing, etc. about 30 blocks. $200,000. E. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs.

Minn., St. Paul—May 28, by G. J. Ries, aud. Ramsey Co., paving White Bear Rd., 25,475 cu.yd. excav., 36,135 cu.yd. overhaul, alternate bids on asphaltic concrete, 1 course concrete and bituminous concrete, 62,465 sq.yd. and 60,920 sq.yd., $200,000; Centerville Rd. to east county line, 19,014 cu.yd. excav., 31,543 cu.yd. overhaul, alternate bids on asphaltic concrete, 1 course concrete, bituminous macadam and plain cement, 45,853 sq.yd. and 48,248 sq.yd., $160,000. P. N. Coates, co. surv.

Kan., Hutchinson—See "Bridges."

Kan., Larned — May 25, by V. Stuart, engr. Pawnee Co., grading and surfacing 11.212 mi. Project 134, Fort Larned-Burdette Rd., 48,337 cu.yd. excav. and 19,184 yd. sand clay. Noted Mar. 29.

Kan., Russell—May 21, by J. W. Murphy, city clk., 6,050 sq.yd. 3 in. vertical fibre brick, asphaltic concrete or 2 course concrete pavement on Main St., 1,640 cu.yd. excav., 1,510 lin.ft. 8 in. curb and gutter. Black & Veatch, Mutual Bldg., Kansas City, Mo., consult. engrs.

South Dakota — May 22, by State Hy. Dept., Pierre, grading 65.08 mi. road in Davison, Lake, McCook, Aurora, Brule, Minnehaha, Lawrence, Mead and Miner Counties; graveling 37.02 mi. Miner, Grant, Deuel, Walworth, and Lake Counties. F. D. Hudgins, state engr.

N. D., Bottineau—May 24, by Auditor Bottineau Co., preparing subgrade and gravel surfacing 12.512 mi. road, 17,079 cu.yd. gravel, 10,987 mi. earth road, 72,328 cu.yd. excav. W. G. Black, c/o State Hy. Dept., Bismarck, engr.

N. D., Carrington—May 22, by Auditor Foster Co., graveling 5.008 mi. road north of here, 12,000 cu.yd. excav., 6,859 cu.yd. gravel. W. G. Black, c/o State Hy. Dept., Bismarck, engr.

N. D., Minnewaukon—May 23, by Auditor Benson Co., preparing subgrade and gravel surfacing 30.757 mi. roads, 42,131 cu.yd. gravel; 6.472 mi. earth road, 36,651 cu.yd. excav. W. G. Black, c/o State Hy. Dept., Bismarck, engr.

N. D., Mohall—May 25, by Auditor Renville Co., 5.234 mi. earth road, 34,846 cu.yd. excav. W. G. Black, c/o State Hy. Dept., Bismarck, engr.

Wyoming—May 22, by State Hy. Comn., Cheyenne, grading and surfacing 8.4 mi. Lincoln Highway, Federal Aid Project 152, north of Laramie, Albany Co., $43,000; grading, surfacing and bridge construction on 5.5 mi. Lingle-Lusk Rd., Federal Aid Project 150, Goshen Co., $35,000; grading, surfacing and building 85 ft. rein.-con. bridge on 8 mi. Yellowstone Highway, Federal Aid Project 144, Laramie Co., $75,000; grading and building 3 treated timber pile bridges on 8 mi. Worland-Tensleep Rd., Sect. D, Federal Aid Project 108, Washakie Co., $30,000; crushed rock surfacing 12 mi. Sundance-Beulah Rd., Federal Aid Project 25, Crook Co., $32,000 (all foregoing 24 ft.); widening and plac-

ROAD WORK—DELAWARE

Following are lowest three bids opened by State Highway Comn., Dover, Apr. 11, for constructing Boyd's Cor.-St. Georges Rd., Contr. No. 32. (A) Sutton & Corson, Ocean City, N. J.; (B) M. Staub, 21 Wildwood St., Pitman, N. J.; (C) Development & Constr. Co., American Bldg., Baltimore. The unit bids were as follows:

	A	B	C
20,000 cu.yd. excavation	$2 00	$1 33	$1 50
3,800 cu.yd. borrow	1 30	73	1 25
180 ton base course	5 50	4 45	6 00
6,760 cu.yd. concrete pavement	17 00	17 90	14 95
18,250 lin.ft. long metal joint	20	14	16
250 cu.yd. class A concrete	35 00	24 00	25 00
120 cu.yd. class B concrete	35 00	22 00	23 00
12,500 lb. reinforcement	08	09	12
500 lin.ft. 16 in. c.i. pipe	4 60	4 50	6 50
126 lin.ft. 18 in. c.i. pipe	6 80	5 50	7 50
124 lin.ft. 24 in. c.i. pipe	11 00	9 00	10 00
124 lin.ft. 30 in. c.i. pipe	15 00	11 00	17 50
12 lin.ft. 36 in. c.i. pipe	23 75	16 00	25 00
500 lin.ft. 15 in. reinforced-concrete pipe	2 90	3 25	2 50
126 lin.ft. 18 in. reinforced-concrete pipe	3 80	4 00	3 00
124 lin.ft. 24 in. reinforced-concrete pipe	6 80	5 25	4 00
124 lin.ft. 30 in. reinforced-concrete pipe	10 25	9 50	6 00
12 lin.ft. 36 in. reinforced concrete pipe	12 75	13 50	7 50
1,800 lin.ft. 4 in. underdrain	95	70	1 20
2,400 sq.yd. concrete gutter	2 30	2 60	2 50
8,200 lin.ft. cable guard rail	50	55	1 00
3,000 lin.ft. wide shoulder curb	20	20	40
1,050 lin.ft. timber piling	1 75	1 50	1 50
Extended totals, c.i. pipe	$166,712	$174,320	$179,999
Extended totals reinforced-concrete pipe	$164,962	$169,373	$178,504

ROAD WORK—KENTUCKY

Bids were opened by State Highway Comn., Frankfort, Apr. 4, for constructing Louisville-Bardstown Rd., Bullitt, Spencer and Nelson Counties, Federal Aid Project No. 86A. (A) Wilmore Constr. Co., Wilmore; (B) Billeter & Wiley, Covington; (C) Henry Bickel & Co., 143 Garden St., Louisville. The unit bids were as follows:

2 acres clearing and grubbing	$150 00	$100 00	$100 00
142 removing trees and stumps	5 00	5 00	5 00
59,709 cu.yd. earth excavation	47	52	65
30,780 cu.yd. solid rock excavation	1 10	1 25	1 75
42,393 cu.yd. borrow excavation	47	52	60
595 cu.yd. excavation for structures	75	1 25	1 25
184 cu.yd. foundation excavation, wet earth	2 00	3 00	2 50
550 cu.yd. foundation excavation, dry earth	75	1 25	1 25
60 cu.yd. foundation excavation, wet rock	1 00	10 00	5 00
183 cu. yd. foundation excavation, dry rock	1 10	5 00	3 00
297 lin.ft. removing existing pipe	50	1 00	50
243 cu.yd. riprap	2 50	4 00	5 00
308,470 sta.yd. overhaul	025	025	02
1118.63 cu.yd. cement rubble masonry	10 00	15 00	11 50
565.14 class A concrete	21 00	26 00	27 00
25.22 cu.yd. class B concrete	21 00	26 00	25 00
14.38 cu.yd. class D concrete	60 00	50 00	80 00
97,469 lb. reinforcement	06	07	065
1000 cu.yd. relaying Telford	75	90	75
8281 cu.yd. removing Telford	90	80	1 00
84,780 sq.yd. rock asphalt surfacing			
89,767 sq.yd. 6½ in. concrete base			
89,767 sq.yd. rock asphalt surfacing	1 15		
20,197 ton crushed limestone	3 00		
89,767 sq.yd. 7½-in. modified Telford base	80		
5611 ton binder stone	3 00		
29,454 ton crushed limestone	3 00	3 02	2 85
14,961 cu.yd. napped limestone base	2 25	3 20	2 60
14,488 ton binder stone	3 00	3 02	2 85
648 lin.ft. 18-in. standard vitrified pipe	2 25	2 75	3 00
710 lin.ft. 24-in. standard vitrified pipe	3 00	3 75	4 50
137.78 cu.yd. 1:3:6 encasing concrete	17 00	20 00	22 00
648 lin.ft. 18-in. reinforced-concrete pipe	2 65	3 75	4 00
710 lin.ft. 24-in. reinforced-concrete pipe	3 75	4 75	6 00
Extended totals modified Telford base and vitrified pipe	$389,839		
Extended totals modified Telford base and concrete pipe	$388,288		
Extended totals limestone base and vitrified pipe	$376,090	$419,434	$426,151
Extended totals limestone base and concrete pipe	$374,539	$418,037	$424,833

Streets and Roads (Continued)

ing bituminous concrete wearing course on 5 mi. Casper-Salt Creek Rd., Federal Aid Project 19, Natrona Co., 16 ft., $54,000. Z. E. Sevison, state highway engr.

Wyo., Cheyenne—May 21, grading, curbing, paving, etc., 3,360 ft. Capitol Ave. from 15th to 24th Sts., 50-80 ft., 20,600 sq.yd. paving, 5,000 lin.ft. concrete curb and 5,000 lin.ft. concrete gutter. Alternate bids on various types of pavement. $60,000. Bruce & Grupe, 408 Finance Bldg., Omaha, Neb., engrs. Noted Apr. 19.

Tex., Abilene—June 6, by City Comn. paving 15 blocks Mulberry, Dallas, Cypress, North 4th and 2nd Sts., 30 ft., bituminous or brick. $25,000. H. H. Batjer, city engr.

Tex., Cleburne—May 22, by O. B. McPherson, judge Johnson Co., grading, gravel surfacing, etc., 10.86 mi. Highway 2-E, 18 ft., $117,244; 14.98 mi. State Highway, 2, 18 ft., $202,363. R. E. Keller, co. engr.

Tex., Dallas—May 21, by C. E. Gross, aud. Dallas Co., 4,500 lin.ft. 5½ in. waterbound macadam on Beckley Rd., $25,000; grading and bituminous topping, etc. 5 mi. Belt Line Rd. 3, 20 ft., cost to exceed $25,000. Nagle, Witt & Rollins, Court House, co. engrs.

Tex., Dallas—May 28, by C. E. Gross, aud. Dallas Co., paving 3.03 mi. East Pike, 20 ft., bituminous or concrete, $135,000. Nagle, Witt & Rollins, Court House, co. engrs.

Tex., Greenville—May 25, by O. B. McWhirter, judge Hunt Co., placing gravel sub base, and bituminous topping on waterbound macadam 3.3 mi. State Highway 11, 16 ft. $25,000; 3.7 mi. State Highway 39, 16 ft., $26,500; 9.66 mi. State Highway 1, 16 ft., $55,000. J. D. Metcalfe, c/o A. D. Duck, co. engr., Greenville, engr.

Tex., Kaufman—May 21, by J. E. Yates, aud. Kaufman Co., grading 6.75 mi. highway, 18 ft. $25,000. C. A. Anderson, co. engr.

Okla., Garber—May 24, by G. L. Matteson, city clk., grading and paving 6 blocks Main St., 14,700 sq.yd. asphalt, etc. $75,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Apr. 5.

Calif., Los Angeles—May 28, by Supervs. Los Angeles Co., improving 5.77 mi. Alameda St. (Rd. Dist. 4), 90,417 sq. ft. shaping roadbed, 90,417 sq.yd. cement concrete, 1,050 sq.yd. asphaltic concrete, etc., county to furnish 32,089 bbl. cement and 4,400 tons disintegrated granite.

Calif., San Francisco—May 23, by Bd. Pub. Wks., grading and surfacing intersection of Sloat Blvd. and Great Highway, 73,100 sq.ft. 1½ in. asphaltic concrete on 6 in. concrete, etc., for city and San Francisco Co. $48,000. M. M. O'Shaughnessy, city engr.

Calif., Stockton—May 22, by City Council, grading, concrete curbing, guttering and surfacing portions Harrison, Lincoln, Clay and Anderson Sts., etc., 194,928 sq.ft. 2 in. asphalt macadam on 4 in. cement gravel, 45,049 sq.ft. cement walks, etc. W. B. Hogan, city engr. Noted Apr. 19.

Calif., Visalia—City Trustees receiving bids grading, curbing, guttering, sewers and paving portion Willis St., 194,370 sq.ft. 1½ in. warrenite bitulithic on 2½ in. asphaltic concrete, etc. L. H. Gadsby, city engr. Noted May 10.

Que., St. Therese—May 22, by J. L. Boubanger, deputy minister of highways, Quebec, resurfacing 3.22 mi. road in St. Therese Parish, 16 ft., macadam with application of liquid bitumen. M. Nectkar, engr. Dept. Rds.

Ont., Leamington—May 25, by R. M. Selkirk, clk., 10,560 sq.yd. rein.-con. pavement. $30,000. J. J. Newman, Davis Blk., Windsor, engr.

Ont., Mimico—May 21, by C. J. Telfer, town clk., 6,000 sq.yd. bituminous concrete pavement, concrete base, concrete curb and gutters. $30,000. W. B. Redfern, Excelsior Life Bldg., Toronto, engr.

Ont., Ottawa—May 22, by Suburban Rd. Comn., paving 4.5 mi. Metcalfe, Bowesville and Merivale Rds., asphaltic concrete or bituminous macadam. $50,000. A. K. Hay, 279 Carling Ave., engr.

BIDS RECEIVED

N. Y., Binghamton—Paving (1) Chenango St. (2) Center St. (3) State St. (a) plain concrete (b) rein.-con. (c) asphaltic concrete (d) bitulithic (e) sheet asphalt (f) sandstone (g) granite block (h) vitr. block, from Montville Constr. Co., Binghamton, (1a) $29,823 (1b) $30,357 (1f) $29,795 (1g) $37,080 (2a) $5,902 (2b) $6,212 (2f) $6,212 (2g) $6,832 (2h) $7,142 (3c) $45,950 (3e) $45,950 (3f) $43,512 (3g) $49,637 (3h) $51,450; Municipal Constr. Co., Binghamton, (1c) $30,152 (1d) $30,508 (2c) $5,791 (2d) $5,928 (2e) $6,076 (3a) $60,190 (3d) $58,687; E. V. Chappell, 27 Wall St., (1e) $34,359.

N. Y., Buffalo—A. W. Kreinheder, comr. Pub. Wks., Municipal Bldg., May 3, repaving (1) Delaware Ave. from Virginia to North Sts., etc. (2) Delaware Ave. from North St. to Gates Circle (a) not incl. concrete base (b) incl. 6 in. concrete base, from Rock Asphalt & Constr. Co., Inc., Morgan Bldg., (1a) $30,742 (2a) $99,258 (2b) $161,867; H. P. Burgard Co., 1968 Fillmore Ave., (1b) $50,125. Noted Apr. 26.

New Jersey—State Hy. Comn., Trenton, May 7, concrete paving 5,494 sq.yd. Route 6, Sect. 15, Bway., in Gloucester City, Gloucester Co., from M. Staub, Pitman, 117% engrs. est. ($29,523); 2,665 sq.yd. concrete and 6,836 sq.yd. granite block paving Route 5, Sect. 7, Mine Hill, Morris Co., from Pub. Serv. Production Co., 80 Park Pl., Newark, 104.72% engrs. est. ($94,506). Noted Apr. 26.

Kentucky—State Hy. Dept., Frankfort, grading using (a) vitr. pipe (b) concrete pipe, 19,618 mi. Louisa-Paintsville Rd., State Project 6, Sect. B, Lawrence Co., from Hatfield Constr. Co., 418½ 10th St., Huntington, W. Va., (a) $356,172 (b) $362,860; 8.867 mi. Mayo Trail, State Project 6, Sect. B, Pike Co., from Sutton Constr. Co., Ashland, (a) $161,787 (b) $159,734; 4.42 mi. Mayo Trail, State Project 6, Sect. A, Floyd Co., from Hunts Forbes Constr. Co., Ashland, (a) $100,188 (b) $96,677; 11.297 mi. Paintsville-Louisa Rd., State Project 6, Sect. A, Johnson Co., from M. A. Wheeler, 405 East Scott St., Knoxville, Tenn., (a) $217,402 (b) $212,189. Noted Apr. 26.

Ohio—Dept. Highways and Pub. Wks., Columbus, May 8, grading, bridging and paving with (a) waterbound macadam (b) brick (c) rein.-con. (d) macadam, asphalt or tar (e) macadam, asphalt (f) macadam, tar (g) gravel (h) bituminous macadam, asphalt (i) bituminous macadam tar (j) bituminous macadam, lake (k) bituminous macadam, oil (l) Kentucky rock asphalt (m) bituminous concrete (n) asphaltic macadam (o) tar macadam (p) plain concrete (q) macadam, oil, (1) 5.698 mi. Sect. "C" West Union-Hillsboro Rd., Adams Co. (2) 2.962 mi. Sect. "D" Ashland-Medina Rd., Ashland Co. (3) 1.545 mi. Sect. "B" Dayton-Lakeview Rd., Clark Co. (4) 2.06 mi. Sect. "L-2" Springfield-Washington C. H. Rd., Clark Co. (5) 1.999 mi. Sect. "G" Celina-Greenville Rd., Darke Co. (6) 1.57 mi. Sect. "R" Milan-Elyria Rd., Erie Co. (7) 2.766 mi. Sect. "D" Cincinnati-Zanesville Rd., Fairfield Co. (8) 3.8066 mi. Sect. "H-1" Gallipolis-Jackson Rd., Gallia Co. (9) 1.628 mi. Sect. "J" Findlay-Kenton Rd., Hardin Co. (10) 1.81 mi. Sect. "I" Findlay-Kenton Rd., Hardin Co. (11) 2.996 mi. Sect. "K" Findlay-Kenton Rd., Hardin Co. (12) 2.381 mi. Sect. "L-1" Mansfield-Millersburg Rd., Holmes Co. (13) 3.541 mi. Sect. "P" Columbus-Sandusky Rd., Huron Co. (14) 3.776 mi. Sect. "A" Celina-Van Wert Rd., Mercer Co. (15) 0.252 mi. Sect. "A" Celina-Van Wert Rd., Mercer Co. (16) 1.357 mi. Sect. "G" Oak Harbor-Genoa Rd., Ottawa Co. (17) 2.602 mi. Sect. "A" Ottawa-Defiance Rd., Putnam Co. (18) 2.121 mi. Sect. "B" Ottawa-Defiance Rd., Putnam Co. (19) 0.556 mi. Sect. "H" Ottawa-Defiance Rd., Putnam Co. (20) 2.624 mi. Sect. "C" Mansfield-Wooster Rd., Richland Co. (21) 3 mi. Sect. "A" Canton-Canal Dover Rd., Tuscarawas Co. (22) 2.299 mi. Sect. "B" Canton-Canal Dover Rd., Tuscarawas Co. (23) 2.093 mi. Sect. "E" Canton-Canal Dover Rd., Tuscarawas Co. (24) 0.464 mi. Sect. "G-3" McArthur-Athens Rd., Vinton Co. (25) 0.87 mi. Sect. "Mason" Cincinnati-Columbus Rd., Warren Co. (26) 1.001 mi. Sect. "L" Youngstown-Salem Rd., Mahoning Co., grading (27) 0.565 mi. Sect. "Salineville" Wellsville-Salineville Rd., Columbiana Co. (28) 2.38 mi. Sect. "J" Mansfield-Millersburg Rd., Holmes Co. (29) 2.59 mi. Sect. "F-2" Ravenna-Louisville Rd., Portage Co. (30) Sect. "M" McArthur-Gallipolis Rd., Vinton Co., widening and paving (31) 1.805 mi. Sect. "D" Columbus-Wooster Rd., Delaware Co., bridge in (32) Sect. "D" Ashland-Medina Rd., Ashland Co., from Miller & Miller, Martinsville, (a1) $92,053; D. A. Phillips & Son, Ashland (b2) $140,729 (c2) $117,276 (d2) $88,408; C. Bird, Springfield (street address not available (b3) $47,855 (g3) $28,156 (g4) $26,228; H. E. Pratt Constr. Co., Mt. Blanchard (e3) $39,569 (b20) $149,976; R. Stone Co., Lima (street address not available) (f3) $40,461; W. H. Ringwald Co., Chillicothe, (h4) $44,839 (i4) $45,999 (i7) $92,010 (j7) $92,010; Hinton & Smalley, Celina, (e5) $58,281 (j5) $52,147 (i14) $82,715 (j14) $82,715 (o14) $87,234 (i15) $5,607 (j15) $5,607 (o15) $5,867; E. L. Reeb, Lima (street address not available), (i5) $51,094 (k5) $50,529; J. E. Karsch Co., Celina, (e6) $57,638; Radebaugh-Graham Co., 209 South Cassidy Ave., Bexley, Columbus, (b7) $132,018 (e7) $105,326; Miller Bros., Gallipolis, (i8) $112,170; Laubis Stone Co., Kenton, (j9) $36,670 (m9) $50,024 (i10) $40,007 (m10) $43,499 (n10) $31,036 (o10) $32,745 (h11) $[illegible] (i11) $66,50 (l11) $82,240 (m11) $[illegible] (h14) $82,663; P. B. Putnman, Van Wert, (i9) $37,828 (j9) $45,627 (i13) $[illegible] (i20) $99,382; G. B. Smith Co., Youngstown (street address not available), (h12) $40,871 (i12) $40,871; Scott Constr. Co., Toledo (street address not available), (b13) $142,565; C. V. Rector, Lima (street address not available), (q13) $[illegible]; H. E. Witte & Son, Elmore (e16) $37,267; Muldoon & Bergman, Genoa, (h16) $22,832 (i16) $23,765; Acton Bros., Vaughnsville, (h17) $54,357 (i17) $54,357 (l17) $62,845 (c18) $61,418 (h18) $49,351 (i18) $49,351 (l18) $55,176 (h19) $11,181 (i19) $11,181 (l19) $13,201; R. Doanst, Defiance, (e17) $71,772 (c19) $14,848; W. K. Drake, Marion (e20) $122,025; Smith Constr. Co., Youngstown (street address not available), (h20) $101,424; C. G. Fuller, Canal Dover, (c21) $93,877 (c22) $68,650; Wilson-Miller Co., Barnesville, (h21) $61,236 (i21) $60,593 (h22) $42,679 (i22) $42,187; P. Christensen Sons, Canton, (e23) $64,628; Reedy Bros., Warren, (h23) $47,408 (i23) $47,408 (i26) $11,363; Mariner & Sands, Athens, (e24) $16,233; J. C. McCann, 191 Belvidere Ave., Columbus, (m25) $27,552 (n25) $27,552; C. W. Milan & Co., Youngstown (street address not available), (i26) $17,859; W. Young, Warren (h26) $10,742; Kane Bros., Lisbon, (27) $17,151; L. C. Bell & Son, West Mansfield, (28) $15,703; W. G. Reimund, Holgate, (29) $8,957; Anderson & Brown, Chillicothe, (30) $25,593; A. B. Shaw, Delaware, (b31) $34,912; D. A. Phillips & Son, Ashland, (32) $14,070. Noted Apr. 26.

O., Euclid—Cement curbing and asphalt paving Monterey, Renwood, Albey, Nauman, Ormiston and Tyrone Rds., from Cleveland Trinidad Paving Co., The Arcade, Cleveland. $159,796. Noted Apr. 26.

O., Wauseon—Fulton Co. grading and concrete paving 1.75 mi. Winameg-Lyons Impvt. 100, 16 ft., from Lyons Constr. Co., Lyons, $39,299.

Indiana — State Hy. Dept., Indianapolis, May 1, concrete paving 41,609 sq.yd. Federal Aid Rd. 52, Sect. B, Vigo Co., from Kerr & Murphy, Bloomington, $77,273. 48,308 sq.yd. Federal Aid Rd. 49, Sect. B, Steuben Co., from J. C. O'Connor & Son, Ft. Wayne (street address not available), $99,611; 21,719 sq.yd. 8 in. gravel, etc., and Federal Aid Rd. 34, Sect. A, Spencer Co., from W. R. Hines, Frankfort, $32,399. Noted Apr. 19.

Ind., Greencastle—Putnam Co., Apr. 28, paving 30,660 sq.yd. S. W. Hunter Rd., waterbound macadam, from Hoffstetter, Martin & Higham, Greencastle, $63,723, engrs. est. $68,980; 28,440 sq.yd. C. H. Crosby Rd., waterbound macadam, from W. Dorsett, Greencastle, $50,768, engrs. est. $54,956. Noted Apr. 19.

Michigan — State Hy. Dept., Lansing, grading and surfacing 5.3 mi. Project 65-6, Sect. A, Monroe Co., 18,423 cu.yd. excav., 56,319 sq.yd. concrete, from Hilding Constr. Co., 363 Ball Park Blvd., Grand Rapids, $145,654. Noted Apr. 19.

Michigan—State Hy. Dept., Lansing, May 8, grading and surfacing 4.853 mi. Project 76, Macomb Co., 9,506 cu.yd. excav., 51,492 sq.yd. concrete, from T. E. Currie, 20 McGraw Bldg., Detroit, $88,536. Noted Apr. 26.

Ill., Elmhurst—Concrete paving various streets, from Standard Paving Co., 326 West Madison St., Chicago. Engrs. est. $150,000. Noted May 3.

Minn., Ortonville—Big Stone Co., May 1, 4.5 mi. Job 2301, State Rd. B, 29,000 cu.yd. excav., 4,250 cu.yd. gravel surfacing, from Morris Constr. Co., Morris, grading and graveling combined $15,166; from D. Savage, Merritt, grading only $4,726; from G. L. Mowery, Ortonville, graveling $3,990; 3.25 mi. Job 2302, State Rd. F, 23,000 cu.yd. excav. and 3,250 cu.yd. gravel surfacing, from R. C. Shoen, Ortonville, grading $6,392; from G. L. Mowery, Ortonville, graveling, $4,297. Noted Apr. 19.

Colorado—State Hy. Dept., Denver, gravel surfacing 2.179 mi. State Project 782, Moffat Co., from Northwestern Constr. Co., Craig, $21,267; 568 ft. masonry flume at Blackhawk, Gilpin Co., from Stroehl Mchy. & Supply Co., Blackhawk, $12,042; paving 2.5 mi. Federal Aid Project 256A, Logan Co., concrete, from La Nier, Selander & White., Ft. Morgan $72,639, bituminous concrete from Western Paving & Constr. Co., 46th and Delgany Sts., Denver, Topeka type $82,939, coarse graded type $81,692; grading 3.924 mi. Federal Aid Project 157B, Chaffee Co., from J. V. Stryker, 1507 Blake St., Denver, $59,741; surfacing 2.708 mi. Federal Aid Project 125, Gunnison Co., from D. Hinman, 3358 Race St., Denver, $33,452. Noted May 3.

Calif., Los Angeles—Grading and paving Badger Ave. and Dock St. approach to new drawbridge (a) lump sum for grading

Streets and Roads (Continued)

and filling (b) 317,775 sq.ft. 2 in. warrenite bitulithic on 7 in. concrete, from Independent Paving Co., 316 East 4th St., Long Beach. (a) $31,775 (b) $0.3891; Warren Constr. Co., Bacon Bldg., Oakland. (a) $14,747 (b) $0.59. Noted Apr. 26.

Calif., Los Angeles—Paving Highland Ave. between Cahuenga Ave. and Sunset Blvd., 160,059 sq.ft. asphalt and 1,401 sq.ft. concrete pavement, etc., from Griffith Co., Los Angeles Ry. Bldg., $77,551.

Calif., Sacramento — Concrete curbing, guttering and paving 18th St. from alley between B and C Sts. to R St., and D St. from 18th St. to point 101 ft. east, from Clark & Henery, Ochsner Bldg., 8,548 ft. concrete curb and gutter at 1.75, 948 ft. concrete curb $0.48, 1,098 ft. concrete gutter $1.39, 235,264 ft. asphaltic concrete $0.12, etc.

Calif., San Diego—Common Council, improving Goldfinch, Bush and Igis Sts., from Griffith Co., 25 14th St., 152,432 sq.ft. 1½ in. asphaltic concrete on 2½ in. bituminous at $0.1575, etc., total $24,347. Noted Apr. 26.

Calif., San Jose—From R. S. Crummey, 5th and Keyes Sts., grading and paving 7th St., between William and Reed Sts., 34,318 sq.ft. 1½ in. warrenite on 3 in. asphaltic concrete and grading at $0.25, etc.; 6th St. between Keyes and Humboldt Sts., 26,189 sq.ft. 1½ in. warrenite bitulithic on 3 in. asphaltic concrete and grading $0.25, 1,378 sq.ft. concrete gutter $0.24.

Calif., Stockton—From Clark & Henery Constr. Co., 38 South Sutter St., grading, curbing, guttering, sidewalks and paving portions East Main, A, C, D and E Sts., etc., 155,448 ft. 2 in. asphaltic concrete on 3 in. crushed rock, 16,803 sq.ft. 2 and 2½ in. asphaltic concrete on 2½ in. crushed rock, etc., $39,292; portions F, East Main, East Washington, East Lafayette Sts., etc., 191,912 sq.ft. 2 in. asphaltic concrete on 3 in. crushed rock, etc., $60,595; streets in City Park Terrace, 163,408 sq.ft. 2 in. asphaltic concrete on 3 in. crushed rock, etc., $53,591. Noted Apr. 5 and May 3.

CONTRACTS AWARDED

Mass., Lee—Paving road, concrete each side of car tracks and bituminous macadam between tracks and 18 in. outside of same, to F. T. Ley & Co., 495 Main St., Springfield. Engrs. est. $35,000-$37,000.

N. Y., Batavia—A. Russell, city clk. bitulithic macadam paving State and Bank Sts., to O. Costich Co., Rochester (street address not available). $38,498. Noted Apr. 26.

N. Y., Buffalo—To Rock Asphalt Paving & Constr. Co., Morgan Bldg., paving Genesee St. $41,001, Wellington Rd. $14,779, Sterling Ave. $31,482, West Peckham St. $11,443, Park Lake Ave. $8,677 and Beard Ave. $5,570, all specification B standard asphalt on concrete; to R. F. Spire, Colonial Circle, Mississippi St., dressed block Medina sandstone with concrete filler and base, $11,500.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing, laying sidewalks, etc., on Alburtis Ave., to Peace Bros., Inc., 15 Lawrence St., Flushing, $30,731; 88th St. to Kennedy & Smith, Inc., 93 Amity St., Flushing, $11,612; sheet asphalt paving Alburtis Ave., to W. J. Fitzgerald, 547 West 45th St., New York, $45,135; guttering, grading sidewalk space and laying sidewalks on Bragaw St. and grading sidewalk space and laying sidewalks on east side of Union Hill St., to J. J. O'Brien, Williams St., Jamaica, $1,730 and $1,344 respectively. Noted May 3.

N. Y., Olean—Commissioners Pub. Wks., improving King St., rein.-con. to J. F. Morgan, 526 Tompkins St., $46,070. Noted Apr. 26.

N. Y., Oneonta—Bd. Pub. Wks., curbing, guttering, asphaltic concrete and rein.-con. pavements, etc., to W. P. McDonald Constr. Co., 17 West 42nd St., New York City, $204,337. Noted Apr. 26.

N. Y., Penn Yan — Vitr. brick paving Liberty St., to C. N. Kelly, Penn Yan, $25,400. Engrs. est. $25,000.

N. Y., Troy—Bd. Contr. & Supply, bitulithic paving 8th Ave. from 110th to 115th Sts., to Fitzgerald Bros. Constr. Co., Inc., Proctor Bldg., $47,635.

N. Y., Utica—Bd. Contr. & Supply, concrete paving Burrstone Rd. and St. Joseph St., to H. W. Roberts & Co., 622 South St., $40,000. Noted Apr. 26.

N. Y., Warwick—President and Village Trustees, 22,000 sq.yd. pavement, to Scheunnemunk Constr. Co., Highland Mills, $71,843. Noted Apr. 12.

N. J., Boonton—Morris Co. Court House (Morristown), reconstructing 14,000 sq.yd. East Main St., concrete, here, to Standard Bitulithic Co., 50 Church St., New York City. $59,720. Noted April 19 under "Morristown."

N. J., Morristown—Morris Co. paving 2½ mi. Valley Rd., amesite on concrete, to C. H. Winans Co., 205 Broad St., Elizabeth. $118,773.

N. J., Somerville—Somerset Co. paving West End Ave., asphalt, to P. Sangiovanni, Hoyt St., Newark, $27,629.

Maryland—State Rds. Comn., Baltimore, concrete surfacing 19,800 sq.yd., Contr. B-55, Baltimore City, to P. Reddington & Son, 2 East Lexington St., Baltimore, $69,433; 29,700 sq.yd. asphalt, 36,500 sq.yd. 6 in. concrete base, Contr. Bc-45, Baltimore City, to Baltimore Asphalt Block and Tile Co., 1320 North Monroe St., Baltimore, $146,435; 6,500 sq.yd. bituminous macadam, 8,800 tons concrete base, Contr. W-24, Washington Co., to Bester-Long Co., Hagerstown, $120,373; gravel surfacing 17,200 sq.yd., Contr. P-36, Prince Georges Co., to E. H. Schmidt, 27th St. and Falls Rd., Baltimore, $19,497; concrete surfacing 12,500 sq.yd., Contr. Wi-24, Wicomico Co., to P. D. Phillips & Bro., Salisbury, $31,684. Noted May 10.

Md., Baltimore—Bd. Awards, 21,010 sq.yd. Contr. 234NA, asphalt, to P. Flanigan & Son, Harford Rd. and Baltimore & Ohio R. R. $91,136. Noted May 10.

W. Va., Logan—Logan Co. paving 3.4 mi. road from Monitor Junction to Holden, 7 in. concrete, to P. Minotti, Logan. $116,316.

S. C., Gaffney—Cherokee Co. Highway Comn. topsoiling 8 mi. road from Blacksburg south to York Co. line, near Smyrna, 85,000 cu.yd. common and 5,000 cu.yd. rock excav., etc., to Newell Constr. Co., Anderson, $43,000. Noted Apr. 5.

Florida — State Hy. Dept., Tallahassee, constructing broken stone base course on 5 mi. road between Sharpes and Titusville, Brevard Co., 5 mi. road between Bonaventure and Eau Gallie, Brevard Co., and 14.4 mi. between Bunnell & Volusia Co. line, Flagler Co., to Barber-Fortin Co., Gainesville, $89,326, $87,930 and $186,900 respectively. Noted Apr. 12.

Alabama—State Hy. Dept., Montgomery, grading and gravel surfacing 25 mi. road from Opp to Florala, Covington Co., to Stanley & Singer, Lafayette, $244,291. 10 mi. between Evergreen and Bellville, Conecuh Co., to Keenan & Kyser, Selma, $96,772; grading and surfacing with gravel and sand 22 mi. between Dale Co. line and Florida line, Houston Co., to Freeman & House, Atlanta, Ga. (street address not available). $140,424. Noted Apr. 19.

Ky., Irvine—Paving Bway., Main, Upper and Short Sts., Kentucky rock asphalt and concrete, to Irvine Constr. Co., Irvine. Cost to exceed $25,000. Noted Apr. 12.

Ky., Whitesburg—Letcher Co. constructing 8 mi. highway from Whitesburg to Harlan, to Commofori Constr. Co., Whitesburg, $112,000. Noted Apr. 26.

O., Akron—W. F. Peters, dir. Pub. Ser., to T. E. McShaffrey Constr. Co., 171 South Forge St., grading, laying sidewalks and paving Bishop St., sheet asphalt and brick, asphalt fill, Trinidad, on 6 in. concrete, $40,277, Delia Ave. $27,761 and Storer Ave. $90,647 both sheet asphalt, Plain B Trinidad on 6 in. concrete; to McAlonan Bros., 506 Woodland Ave., South Bates St., standard brick on 6 in. concrete, asphalt filler, $13,407; to Columbus Asphalt Paving Co., 394 Buckeye Bldg., Market St., sheet asphalt, Plan A (Trinidad) $10,681; to Di Foti Constr. Co., 72 Furnace St., West South St., standard brick, asphalt fill on 6 in. concrete, $40,532. Noted May 10.

O., Bexley (Columbus, P. O.)—S. W. Roderick, village clk., to A. G. Pugh, Commerce Bldg., Columbus, grading, curbing and asphalt paving 1,700 ft. Roche Ave. $31,213, 2,200 ft. Remington Rd. $36,757, 2,336 ft. Fair Ave. $45,646; to Grant-Boulton Co., Central National Bank Bldg., Columbus, 2,300 ft. Ardmore Rd. $45,670, 2,000 ft. Cassingham Rd. $37,716, 550 ft. Seneca Park Pl. $7,981, 650 ft. Bexley Dr. $9,423, all 24 ft. wide. Noted Apr. 26.

O., Cincinnati—C. F. Hornberger, dir. Pub. Serv., City Hall, repaving 1,200 ft. Guilbert Ave. viaduct, 50 ft., granite blocks, to M. F. Quill & Son, 409 Gerke Bldg., $53,003. Noted Apr. 26.

O., Cleveland—Curbing, guttering and vitr. brick paving 9,055 sq.yd. Cypress Ave., to Baldwin Bros., 4500 Euclid Ave., $47,679, 9,170 sq.yd. West 35th St., West 41st Pl. and Mayview Ave., to Roehl Bros. Paving & Constr. Co., West 25th St. and Clark Ave., $60,331, Linton Ave., to Enterprise Paving & Constr. Co., 8444 Bway., $16,613; asphalt paving Bosworth Rd., to Cleveland Trinidad Paving Co., The Arcade, $83,774. Noted May 10.

O., Massillon—To General Asphalt Paving Co., Canton (street address not available), paving Henry, Duncan, North, Cherry and Center Sts., $100,808, resurfacing Tremont and Mill Sts., $28,569, all sheet asphalt; to E. Vogt Paving Co., Massillon, sheet asphalt paving Erie St., $153,489; to Urban Bros., Massillon, brick paving Akron St., $7,994. Noted May 3.

Indiana—State Hy. Dept., Indianapolis, concrete paving 22,495 sq.yd. Federal Aid 35C, Virgo and Sullivan Counties, to Carpenter Constr. Co., Terre Haute (street address not available), $162,234; 23,015 sq.yd. State Aid 6H (formerly Federal Aid Rd. 40C), Marion Co., to G. T. Miller, Lebanon, $40,991; 90,624 sq.yd. Federal Aid Rd. 21A, Jackson Co., to Wabash Constr. Co., Vincennes, $173,015; 51,130 sq.yd. Federal Aid Rd. 49A, Steuben Co., to J. C. O'Connor & Sons, Ft. Wayne (street address not available), $135,116; 15,611 sq.yd. Federal Aid Rd. 6B, Putnam Co., to Kerr & Murphy, Bloomington, $27,039; 39,392 sq.yd. Federal Aid Rd. 19B, Perry Co., to Ellis & Scamahorn, Rockport, $31,937; 49,968 sq.yd. gravel base, Federal Aid Rd. 19A, Perry Co., to Harshman & Jarrell, Frankfort (street address not available), $41,245. Noted Apr. 19.

Ind., South Bend—Bd. Pub. Wks., to White Constr. Co., Merchants' Bank Bldg., asphalt paving, etc., 28,294 sq.yd. Bowman, Lafayette, Eddy and Fox Sts., Hudson, Marquette and Wakewa Aves., $74,422, engrs. est. $98,830; to Williston Constr. Co., Citizens' Bank Bldg., bituminous concrete paving 5,355 sq.yd. Marine St., Woodward and Angella Aves., $19,582, engrs. est. $27,344; to H. N. Barnes, 1026 North Johnson St., concrete paving 659 sq.yd. alley west of Scott St., $2,117, engrs. est. $2,700; to J. A. Barnes, South Michigan Rd., 3,197 lin.ft. sidewalk, 3,403 lin.ft. curb and 2,401 cu.yd. excav., on Donmoyer Ave., O'Brien, Fredericksen and Prast Sts., $6,078, engrs. est. $6,139. Noted Apr. 26.

Mich., Springwells — Dix-Ferndale Land Co., 200,000 sq.ft. concrete sidewalks on Dix Ave., Villas Subdivision, to R. J. Powelson, 6415 Iroquois Ave., Detroit, $32,000. Noted May 10.

Wisconsin—State Hy. Comn., Madison, to Universal Eng. Co., Ingram Blk., Eau Claire, surfacing Stevens Point-Wausau Rd., Portage Co., 51,160 sq.yd. 18 ft. concrete surfacing $1.44, etc., total $106,106, Manitowoc-Sheboygan Rd., Manitowoc Co., 31,216 sq.yd. concrete $1.33, etc., total $62,758; to McKusick Constr. Co., 330 Temple Court, Minneapolis, Minn., Fremont-Weyauwega Rd., Waupaca Co., concrete, lump sum $114,852, 11,833 sq.yd. with curb $1.75, etc., total $184,425.

Wisconsin—State Hy. Comn., at div. office 6, 213 South Barstow St., Eau Claire to A. F. Lehrer Constr. Co., Bay Port, Minn., grading and surfacing Plum City-Ellsworth Rd., Federal Aid Project 234, Pierce Co. and Red Wing-Ellsworth Rd., Federal Aid Project 1014, Pierce Co., $20,805 and $18,858 respectively; R. C. Jens, Eau Claire, Chelsea-Westboro Rd., Federal Aid Project 331, Taylor Co., $17,778; Isaacson Bros., Spring Valley, Ellsworth-River Falls Rd., Project 122 B, Pierce Co., $21,489. Noted Apr. 19.

Wis., Shawano—Paving Main St., bitulithic on old base, also Andrews, Center, Richmond and Franklin Sts., bitulithic on new base, to F. P. Caughlin, 30 North La Salle St., Chicago, $45,674 and $51,510, respectively.

Wis., Two Rivers—Paving various streets, vibrolithic concrete, to E. J. Streu, Two Rivers, $27,650. Noted Apr. 26.

Ia., Creston—Union Co. grading 3.725 mi. road between Afton and Talmage, 26 ft., 100,469 cu.yd. excav., to J. H. Miller & Sons, Corydon, $26,926.

Ia., Ida Grove—Ida Co. to A. O. Shelsmess, Gilman, gravel surfacing 8.66 mi. road, 13,492 cu.yd. 1 mi. haul, 193,000 units ½ mi. haul, $25,472; to G. W. Condon, 510 Farnam Bldg., Omaha, Neb., grading 7.7 mi. road, 96,950 cu.yd. excav., $22,299.

Ia., Rock Rapids—Lyon Co., grading 23.5 mi. road, 184,460 cu. yd. excav., to I. Cox, 800 North Duluth Ave., Sioux Falls, S. D., $51,617.

Minn., Glencoe—McLeod Co., grading and graveling 5 mi. road from Hutchinson to Dessel, excav. to Hosford & Engstrom, Glencoe; graveling to Senescall & Kasper, Glencoe. $26,000.

South Dakota—State Hy. Dept., Pierre, graveling 3.4 mi. Project 14 B Stanley Co. and 11.89 mi. Project 56 Sully Co., to C. J. Wheelock, Pierre, $8,386 and $12,613 respectively. 6.61 mi. Project 99 Brown Co. and 17.65 mi. Project 34 and 94 Spink Co., to H. Pickus Constr. Co., 2316-3rd St. Sioux

Streets and Roads (Continued)

City, Ia., $10,052 and $37,464 respectively, 7.32 mi. Project 138 A, Lawrence Co., to Sheehan & Bjerkness, Sioux Falls, $49,563, 14.62 mi. Project 83, Kingsbury Co., to W. R. Larson, 519 Secy. National Bank Bldg., Sioux Falls, $18,857, 14.39 mi. Project 45 Grant Co., to R. R. Wiley, Summit, $19,610, 11.67 mi. Project 82, Brookings Co., to C. H. Atkinson Paving Co., Watertown, $14,707; grading Project 88 B, Meade Co., to Parrish Constr. Co., Rapid City, $57,288, 3.71 mi. Project 49 B Lyman Co., to R. P. England, Murdo, $32,149, 9.86 mi. Project 126 Kingsbury Co., to Kingsbury Co., De Smet, $34,058, 8.76 mi. Project 136 Hamlin Co., to Dowd Bros. & Schreiber, Watertown, $30,092; 9.63 mi. Project 129 Turner Co., to P. M. Thompson, Sioux City, Ia., $36,998.

S. D., Elkpoint—For 20,000 sq.yd. concrete to Booth & Olson, 120 Victoria St., Sioux City Ia., $50,000. Noted Apr. 19.

N. D., Devils Lake—Auditor Ramsey Co., 13 mi. earth road, 92,000 cu.yd. excav., etc., to Stevens Bros., Garrison, $64,520. Noted Apr. 19.

N. D., Grafton—Walsh Co., grading 15 mi. Project 165, 75,939 cu.yd. excav., to W. Schultz, Fergus Falls, Minn., $31,910.

Neb., Beatrice—Paving Dist. 47, to Abel Constr. Co., 318 Terminal Bldg., Lincoln, vitr. brick $3.35 per sq.yd., asphaltic concrete $2.49, sheet asphalt $1.51. Engrs. est. $80,000.

Missouri—State Hy. Dept., Jefferson City, 1.403 mi. State Project Route 51, Sect. 3, Perry Co., to Energy Coal & Supply Co., Poplar Bluff, $10,356; 4.469 mi. State Project Route 7, Sect. 78, Texas Co., 4.886 mi. State Project Route 7, Sect. 77, Texas Co. and 4.018 mi. State Project Route 16, Sect. 61, Carter Co., to Coopers Constr. Service Co., Federal Reserve Bank Bldg., St. Louis, $10,025, $23,284 and $42,189 respectively. Noted Apr. 19.

Wyoming—State Hy. Comrs., Cheyenne, grading, surfacing, etc., 9 mi. Greybull-Cody Rd., Federal Aid Project 125, Natrona Co., to P. Sawyer, Scotts Bluffs, Neb., $43,943. Noted Apr. 19.

Tex., Anson—For 15,600 sq.yd. brick paving to Valient & Toomey, F and M Bank Bldg., Ft. Worth $2.97 per sq.yd.

Tex., Columbus—Colorado Co. surfacing 8.7 mi. Highway 3, to Ben Hooper, Louise, $7,027; 8,833 cu.yd. shipped gravel furnished by county $17,246. Engrs. est. $27,000 incl. material, engineering and contingencies. Noted May 3.

Tex., Corsicana—Navarro Co. concrete surfacing 34,066 sq.yd. Highway 31, to F. P. McElwrath, Corsicana, $85,998. Engrs. est. $94,597 incl. 10 per cent for engineering and contingencies. Noted Apr. 26.

Tex., Dallas—Dallas Co. grading and base on 8.8 mi. Coppell Carrelton Belt Line Rd., 20 ft., to Hill, Wilson & Watson, North Texas Bldg., $25,154; rawhide type surfacing above road, to Dallas Constr. Co., North Texas Bldg., $23,180. Noted Apr. 26.

Tex., Liberty—Linerty Co. 25 mi. rawhide road, 18 ft., to Houston Constr. Co., 3102 McKinney Ave., Houston, $8,500 per mi. Engrs. est. $210,000.

Tex., Palo Pinto—Palo Pinto Co. grading and gravel surfacing 7 mi. Graford Rd., 16,602 cu.yd. gravel, 12,203 lb. reinforcing, 49,167 cu.yd. roadway, 3,614 cu.yd. loose and 6,662 cu.yd. solid rock excav., to Smith Bros., 311 Central State Bank Bldg., Dallas, $31,328. Engrs. est. $50,000.

Colo., Denver — Grading and concrete curbing 10 mi. North Denver Impvt. Dist. 30, to J. Collier, 63 South Logan St., $70,162. Engrs. est. $81,000. Noted Apr. 19.

Utah, Provo — Curbing, guttering and paving 20 blocks, 1st St. S., 2nd St. S., 1st St. E., 2nd St. E. and 5th St. W., 13,000 lin.ft. concrete curbing and gutter, 1,800 cu.yd. excav., 2,000 sq.yd. concrete, to Mullins & Palm, Kearns Bldg., Salt Lake City, $41,374.

Washington—State Hy. Comn., Olympia, clearing 85,580 cu.yd. and grading 6.89 mi. Pacific Highway from Bellingdale to Ferndale, Whatcom Co., to J. Ottison, 2523 32nd St. S., Seattle, excav. $0.40 per cu.yd., etc., total $67,371; 8.7 mi. Olympic Highway from Agnew to Port Angeles, Clallam Co., to K. L. Goulter & Co., Ilwaco, 287,760 cu.yd. excav. $0.50, etc., total $181,164; grading and graveling 4.2 mi. Sunset Highway from Preston to Falls City, King Co., to Dowell & Clark, Securities Bldg., Seattle, 69,135 cu.yd. earth excav. $0.45, 6,080 cu.yd. gravel $1.40, etc., total $76,006; paving 4.85 mi. Sunset Highway from Spokane County line to Reardon, Lincoln Co., to C. M. Payne, Constr. Co., East 127 Mission St., Spokane, 50,912 sq.yd. concrete at $2.70, 9,000 cu.yd. earth excav. $0.40, etc., total $161,375. Noted Apr. 19.

Wash., Centralia—Paving 24,000 sq.yd. L. I. D. 61, 6 in. concrete, to Neilan Bros., Sedro Woolley, $66,623.

Wash., Longview—Long-Bell Lumber Co., 100,000 sq.yd. 8 in., 27,000 sq.yd. 6 in. and 3,500 sq.yd. 7 in. concrete, 50,000 lin.ft. curbing, 32,000 lin.ft. curbs and gutters, 500,00 sq.ft. concrete sidewalk, to Bonnell & Savage (street address not available), Tacoma, $50,000.

Wash., Seattle—King Co., paving 11,842 sq.yd. 16th Ave. S. W. Highway from White Center south, one course concrete, 6-8 in. thick, to Fiorito Bros., 3950 60th Ave. N. W., $31,400. Engrs. est. $30,000. Noted Apr. 26.

Wash., Tacoma—Pierce Co., paving 26,248 sy.qd. Spanaway-McKenna Rd., concrete, to Goetz & Brennan, Seaboard Bldg., Seattle, $62,210. Noted Apr. 26.

Ore., Portland—For 2 in. bitulithic on 4 in. concrete on East 52nd, East 70th and East 40th Sts., to Municipal Asphalt Paving Plant, City Hall, $1.55 per sq.yd., $10,875; East 69th and Burrage Sts., to A. D. Kern, Exch. Bldg., $1.52 per sq.yd., total $22,221. Noted Apr. 19.

Calif., Lodi—Concrete curbing, guttering and paving portions of Walnut St., etc., to Clark & Henery Constr. Co., 38 South Sutter St., Stockton, 139,452 sq.ft. 1½ in. warrenite on 2½ in. asphaltic concrete $0.185, 152,440 sq.ft. grading $0.03, 7,250 lin.ft. concrete curb $0.48, 9,062 sq.ft. concrete gutter $0.25. Noted May 10.

Calif., Los Angeles—Los Angeles Co. paving highway from Palmdale southeast to Shoemakes Ranch, 10.7 mi. 6 in. asphaltic concrete, 18 ft., 6.5 mi. 5 in. asphaltic concrete, 18 ft., 3.1 mi. disintegrated granite paving and 3.3 mi. grading roadway, 24 ft., to G. H. Oswald, 366 East 58th St., $615,000. Noted Mar. 22.

Calif., Santa Ana—Orange Co. concrete curbing, guttering and paving Rd. Dist. 20, 558,495 sq.ft. 1½ in. warrenite bitulithic on 3½ in. asphaltic concrete, etc., to S. Finley, Santa Ana, $199,640.

Ont., Brantford—Brant Co. will construct gravel and macadam roads, by day labor. $48,000. A. E. Watts, County Bldg., clk.

Ont., Toronto—Toronto and York Good Roads Comn., 57 Adelaide St. E., concrete base with asphalt top, concrete curbs and gutters in Agincourt, and Browns Rd., to Standard Constr. Co., Mimico Beach; concrete base with penetration top, concrete curbs and gutters at Schomberg, to Curran & Briggs, Orillia; concrete base with asphalt top on Scarlett Rd., to Construction & Paving Co., Confederation Life Bldg.; concrete base with Warrenite top on Sutton and York Rds., to Warren Bituminous Paving Co., University Ave.; concrete base, Penetration top on Kennedy Rd., to A. E. Jupp Constr. Co., 170 Berkley St.; concrete base, Penetration top, on Vaughan Rd., to R. Honsberger, Vineland; concrete base, Penetration top, on Don Mills Rd., to Law Constr. Co., 107 Hilladale Ave.; waterbound macadam on Sutton Rd. and Blantyre Diversion, to Orr & Clark, The Oaks; waterbound macadam on Weston Rd., to E. S. Dogg, Kleinburg. Total cost $400,000.

Industrial Work

PROPOSED WORK

Conn., Meriden—Connecticut School for Boys plans power house, $50,000, and 3 story, 50 x 100 ft. building to contain laundries, etc., $150,000, both brick, plain foundations. E. S. Boyd, supt. Engineer and architect not selected.

N. Y., Fort Miller—Fort Miller Paper & Pulp Co. plans rebuilding mill, recently destroyed by fire. $100,000. Engineer and architect not announced.

N. Y., Long Island City—Superior Piece Dye Wks., 37 Moultrie St., soon lets contract brick, steel and rein.-con. factory, plain foundation. $100,000. L. A. Abramson, 46 West 46th St., New York City, archt. and engr.

N. Y., Perrysville—Worlock Stone Crushing Co. plans to rebuild plant recently destroyed by fire. $100,000. Engineer and architect not announced.

N. Y., New York—Cushmans Sons, Inc., 461 West 125th St., soon takes bids 6 story, 100 x 100 ft., brick, steel and concrete top addition to bakery, Lawrence St. and Amsterdam Ave. $250,000. L. S. Beardsley, 116 West 39th St., archt. and engr. Noted Apr. 26.

N. Y., Phila.—See "Miscellaneous."

N. Y., Watertown—Standard Oil Co. of New York, 26 Bway., New York City, plans garage, service, oil and gasoline filling stations, 410 State St., here. $50,000.

N. J., Kearny (Arlington P. O.)—Western Electric Co., 195 Bway., New York City, having plans prepared by J. G. White, engr., 43 Exch. Pl., New York City, power plant, here.

N. J., Kearny (Arlington P. O.)—Western Electric Co., 195 Bway., New York City, soon takes bids cable building, here. McKenzie, Voorhies & Gmelin, 347 Madison Ave., New York City, archts. O. G. Spurling, 195 Bway., New York City, engr.

N. J., Keyport—Standard Motor Trading Co. having plans prepared by L. S. Crane, consult. engr., 41 Park Row, New York City, 1 story, 171 x 196 ft. warehouse, fireproof construction. $75,000.

N. J., Waldwick—Waldwick Coal & Lumber Co. plans to rebuild mill recently destroyed by fire. $150,000. Engineer and architect not announced.

Pa., Burnham—Bd. Dirs. Burnham Medicine Co. opens bids about June 15, 3 story and basement, 50 x 120 ft. concrete factory, 4th Ave. $60,000.

Pa., Franklin—Eclipse Oil Wks. plans to rebuild portion of refinery recently destroyed by fire. $50,000. Engineer and architect not announced.

Pa., Franklin—Franklin Steel Wks. plans 1 story, 45 x 425 ft. addition to plant. Private plans.

Pa., Johnstown—Commonwealth Playing Card Co., plans 2 story and basement, 65 x 100 ft. brick and steel factory, Strayer St. $50,000. J. W. Culp, vice pres. and genl. mgr.

Pa., Mahoney City — Ball Lumber Co. plans to rebuild plant recently destroyed by fire. $100,000. Engineer and architect not announced.

Pa., Scranton—H. G. and W. A. Smith, Wyoming Ave. and Walnut St., plans 87 x 155 ft. factory, Wyoming Ave. $60,000. Engineer and architect not announced.

Pa., Warren — Conewango Refining Co. plans to rebuild refinery, North Warren Ave., recently destroyed by fire. $500,000. Engineer and architect not announced.

Md., Baltimore—Motor Finance Co., Inc., 15 Mt. Royal Ave., plans 1 and 2 story, brick and steel garage, Fulton and Pennsylvania Aves. $75,000. R. M. Stein, pres. Engineer and architect not selected.

Md., Baltimore—Standard Sanitary Mfg. Co., Bessemer Bldg., Pittsburg, Pa., having plans prepared by S. Diescher & Sons, Farm Bldg., Pittsburg, Pa., manufacturing plant, brick and steel, concrete pile foundation, 5th Ave., here. $2,500,000.

W. Va., Clarksburg—Clarksburg Automobile Co. having plans prepared by F. D. McEnteer, Clarksburg, 3 story and basement, garage. $75,000.

N. C., Lexington—Poneemah Mills Co. plans cotton mill. $100,000. C. A. Mountcastel and J. E. Williams, Lexington, interested.

N. C., Statesville—Sherill-Green Furniture Co., recently incorporated, plans factory. $45,000-$100,000. J. L. Sherill, T. L. Green and S. Wallace, Statesville, interested.

S. C., Fairmont—Fairmont Mfg. Co. having plans prepared by Lockwood, Greene & Co., engrs., Piedmont Bldg., Charlotte, N. C., 3 story, 106 x 267 ft. mill.

S. C., Greenville—Southern Worsted Co. having plans prepared by Lockwood, Greene & Co., engrs., Piedmont Bldg., Charlotte, N. C., 1 story, 180 x 579 ft. plant, mill construction.

S. C., Union—Flexible Saw Works plans factory. $90,000. Engineer and architect not announced.

Ala., Heflin—W. M. Dodson, Wedowee, plans electric light and power plant, here. $40,000.

O., Akron—Taplin-Rice-Clerkin Co., 177 South Bway., having plans prepared by Carmichael Constr. Co., 524 Hamilton Bldg., rebuilding 2 story, foundry, Bettes Corners, recently destroyed by fire. $125,000.

O., Canton—Union Metal Mfg. Co., 1410 Maple Ave. N. E., plans large plant addition. $120,000. Engineer and architect not announced.

O., Zanesville—Adams Transfer & Storage Co., Muskingum Ave., plans 3 story and basement, 87 x 100 ft., brick and concrete warehouse. $57,000.

Mich., Detroit—C. M. Hall Lamp Co., 1035 East Hancock Ave., having plans prepared by Baxter, O'Dell & Halpin, 1024 Hammond Bldg., 2 story, 80 x 172 ft. rein.-con. and brick addition to factory, plain foundation, Hancock Ave. $75,000.

Mich., Grand Rapids—Valley City Milling Co., 217 Michigan Ave. N.W., rejected bids 7 story, 78 x 134 ft., rein.-con. and steel mill, eight 20 ft. rein.-con. tanks 121 ft. high, etc. $600,000. May revise plans or postpone until 1924. A. F. Baxter, 16 Hanover St., Buffalo, N. Y., engr.

Industrial Works (Continued)

Mich., Lansing — Wynkoop-Hallenbeck-Crawford Co., 119 East Ottawa St., having sketches made by S. D. Butterworth, Prudden Bldg., 5 story and basement, 135 x 155 ft. concrete, brick and stone, plant and office building. $200,000.

Ill., Chicago—Union Stock Yards plans 8 and 9 story, 62 x 240 ft., live stock exchange, rein.-con., brick and steel, Union Stock Yards. $1,000,000. A. Epstein, 2007 West Pershing Rd., archt.

Wis., Ashland—Ashland Paper Co. having plans prepared by Smith & Reynolds, Dempsey Bldg., Manitowoc, 2 story, 75 x 200 ft. mill addition, brick and rein.-con. $50,000.

Wis., Burlington — Patefield Bros. Co. making plans 1 or 2 story, 50 x 70 ft. garage and repair shop, brick, rein.-con. and steel, plain foundation. $40,000. Private plans.

Wis., Chippewa Falls—City plans power house and dam, rein.-con., brick and steel, at Brunet dam site. L. J. Felix, clk. Engineer and architect not selected.

Wis., Madison—Madison Nash Co., 155 East Wilson St., plans 2 story, 66 x 122 ft. garage, rein.-con., brick and steel, plain foundation. $40,000. Engineer and architect not selected.

Wis., Madison—A. J. Sweet, 639 West Wilson St., having plans prepared by R. A. Phillips, Beaver Bldg., 1 story, 60 x 90 ft. rein.-con., brick and steel storage plant, plain foundation, Wilson St. $40,000.

Wis., Monroe—J. P. Bruecker, archt., 482 Frederick Ave., Milwaukee, preparing plans 2 story, 40 x 100 ft. garage, brick and concrete, plain foundation, here. $40,000. Owners name withheld.

Wis., Port Washington—Schmit Bros. having plans prepared by F. Graf, 307 Grand Ave., Milwaukee, 1 story, 52 x 100 ft. garage addition, brick, plain foundation. $40,000.

Wis., West Allis—Burbach Auto Service Co., 5225 Greenfield Ave., rejected bids 2 story, 62 x 87 ft. garage, brick and concrete, plain foundation, 53rd Ave. $40,000. Will readvertise. Hunt & Grissold, 445 Milwaukee St., Milwaukee, archts. Noted Feb. 22.

Tex., Dallas—Dallas Textile Mills Co., c/o J. P. Burrus, pres., Interurban Bldg., had plans prepared and takes bids in summer, 2 story, brick, concrete and steel, plain foundation, 150,000 sq.ft. floor space, in Love Field Industrial Dist. $1,000,000. L. W. Robert, Jr., Tufts Bldg., Atlanta, Ga., engr.

Calif., Exeter—W. F. Humphreys, attorney, Mills Bldg., San Francisco, representing syndicate which plans cement plant. $2,000,000 (ultimately $4,000,000).

Calif., Manteca—Milk Producers Assn. of Central California, 510 - 9th St., Modesto, plans plant, here. $100,000.

Calif., Oakland — Oakland Refrigerator and Butchers Supply Co., 2766 Grove St., had plans prepared by A. W. Smith, 1010 Bway., 1 story, brick, factory, 12th St. $40,000.

Calif., San Jose—Merritt Concrete Products Co., 727 Chapman St., plans plant, Monterey Rd. To exceed $40,000.

Calif., San Rafael—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, having plans prepared group 1 story service buildings, incl. meter shop, garage, warehouse, paint shop, etc., frame and plaster, here. $41,500. Private plans.

Quebec—See "Miscellaneous."

BIDS DESIRED

Conn., Middletown—May 21, by Frissel Fabric Co., 26 Frissel St., 1 story and basement, 60 x 200 ft. factory, rein.-con. and brick, plain foundation, Silver St. $60,000. Bilderbeck & Langdon, 159 State St., New London, archts. Noted Apr. 5.

N. Y., Brooklyn—S. Abels, c/o M. A. Cantor, archt. and engr., 371 Fulton St., will build 1 story, brick, steel and concrete garage, plain foundation, Bridge St. $65,000. Work will be done by separate contracts.

N. Y., Lyons—Bashford Cider & Vinegar Co., Water St., taking bids concrete and brick plant addition. $50,000-$60,000. J. E. Jennings, mgr. Noted Mar. 29.

Pa., Ebensburg — Gardner Calculating Machine Co. taking bids 2 story and basement, 90 x 100 ft. plant, High St., $70,000. Private plans.

Pa., Pittsburgh—J. McSorley, 5526 Hobart St., will build 2 story and basement, 80 x 100 ft. concrete and brick garage, Millwood and Center Sts. $40,000. Work will be done by separate contract.

Pa., Pittsburgh—B. H. Prack, archt., Keystone Bldg., taking bids 4 story and basement, 62 x 143 ft., rein.-con., brick and tile factory, Braddock Ave., for Mine Safety Appliance Co., Chamber of Commerce Bldg. $150,000.

S. C., Spartanburg—May 22, by Lockwood, Greene & Co., Piedmont Bldg., Charlotte, N. C., 3 story, 125 x 280 ft., textile mill, mill construction, for Acadia Mfg. Co. Noted Apr. 5.

O., Cleveland — Cleveland Electric Illuminating Co. taking bids superstructure 4 story 108 x 194 ft., brick, steel and concrete substation, foot of East 170th St. $750,000. E. J. Cook, Illuminating Bldg., archt. J. C. Spencer, Engineers Bldg., engr.

Mich., Detroit—H. J. Farwell, archt., 35 Ford Ave., Highland Park, (Detroit P. O.) taking bids and opens same about May 26, 3 story 40 x 125 ft. rein.-con. and brick garage and service station, plain foundation, Hamilton Blvd., for Kohn & Michelson, 13806 Woodward Ave. $50,000.

Wis., De Pere—F. Bloom taking bids 1 story, 40 x 60 ft. garage and repair shop, brick and rein.-con., plain foundation, 3rd and Oneida Sts. $40,000. Private plans.

Wis., Delavan—H. C. Hengels, archt. 445 Milwaukee St., Milwaukee, taking bids 2 story, 34 x 60 ft. garage and 20 x 62 ft. filling station, brick and concrete, plain foundation, for A. H. Schumacher, Delavan. $50,000.

Wis., Madison—F. L. Kronenberg, archt., Carroll Blk., taking bids 2 story, 60 x 150 ft. garage and repair shop, brick, rein.-con. and steel, plain foundation, Washington St., for Capitol Garage Co., South Pickney St. $80,000.

Wis., Milwaukee—H. L. Kuehnel, archt., 4625 Woodlawn Court, Wauwatosa, taking bids 1 story, 42 x 120 ft., concrete factory, plain foundation, Keefe Ave., here. $40,000. Owners name withheld.

Wis., Milwaukee—E. R. Liebert, archt., 432 Bway., taking bids 1 story, 42 x 140 ft. boiler house, brick and steel, plain foundation, Marshall St., for Western Leather Co., 878 Marshall St. $40,000.

Tex., Ft. Worth—World Publishing Co., 606 Commerce St., taking bids 2 story and basement, 100 x 220 ft., rein.-con. and brick plant, plain foundation, Jones St. at 2nd and 3rd Sts. $200,000. O. H. Atkinson, 806 Taylor St., engr. and archt.

Tex., Lubbock—J. L. Dow taking bids 2 story, printing plant, rein.-con. and brick, plain foundation. $50,000. Engineer and architect not announced.

Calif., Los Angeles — W. J. Saunders, archt., Laughlin Bldg., receiving bids 3 story, 50 x 100 ft., rein.-con. laundry, 6th St., for City Towel Supply Co., 413 East 6th St. To exceed $40,000.

Calif., Los Angeles—Walker & Eisen, archts., Pacific Finance Bldg., receiving bids 5 story and basement, brick and steel warehouse, 15th and Los Angeles Sts., for Los Angeles Rubber Stamp Co., 131 South Spring St. To exceed $50,000.

Ont., Campbellford—May 25, by Hydro Electric Power Comn., 190 University Ave., Toronto, excav. and concrete work for power plant, incl. 90,000 cu.yd. rock excav., 2,700 cu.yd. rein.-con. with reinforcing steel, at Dam 8 on Trent River, here. $1,066,408. F. A. Gaby, ch. engr.

BIDS RECEIVED

Calif., Sacramento—Dean & Dean, archts., City Library Bldg., 1 story and basement, rein.-con. warehouse, 3rd and Q Sts., from Campbell Constr. Co., Builders Exch., $79,864, for Lindley Co., 220 K St. Noted Apr. 26.

CONTRACTS AWARDED

Me., South Portland — Maine Central R.R., Portland, locomotive and car repair shops, engine house, power plant, etc., rein.-con., brick and steel, plain and concrete pile foundation, here, to J. W. Gulliver Co., 120 Exchange St., Portland, F. A. Rumery Co., 21 Portland St., Portland, and J. J. Prindiville Co., South Framingham, Mass. Archts. est. $1,250,000. Noted Jan. 25.

N. J., Trenton—Trenton Packing Co., Inc., packing house, Escher and Behm Sts., to S. Teitz, 225 Jackson St., $52,000.

Pa., Galeton—Keystone Garage Co. will build 1 story and basement, 75 x 120 ft. garage, by day labor. $40,000. H. Haskell, Hulett Bldg., Elmira, N. Y., archt.

W. Va., Raleigh—Raleigh Transportation Equipment Constr. Co., Beckley, will build 1 story, 60 x 130 ft. garage, here, by day labor. $40,000. Private plans.

N. C., Concord—Gibson Mfg. Co., Charlotte, finishing plant, mill construction, here, to T. C. Thompson & Bro., 609 South Smith St., Charlotte, $56,000.

N. C., Concord—Hobarton Mfg. Co., 1 story, half basement, 80 x 220 ft., textile mill construction, to T. C. Thompson & Bro., 609 North Smith St., Charlotte, $40,000. Noted Apr. 4.

N. C., Raleigh—See "Buildings."

N. C., Worthville—Leward Cotton Mills, addition to textile mill, to J. L. Crouse, Greensboro, $68,000. Noted Mar. 22.

S. C., Greenwood—Grendel Mills, 4 story textile mill, 75,000 sq.ft. floor space, mill construction, to Mauldin & Chapman, Greenwood, $130,000. Noted Mar. 22.

S. C., Greenville—Duncan Mills, 1 story weave shed, 55,000 sq.ft. floor space, mill construction, to Gallivan Bldg. Co., West Washington St., $150,000.

O., Ashtabula—Standard Oil Co. of Ohio, c/o E. B. Wagoner, supt. construction, East Ohio Gas Bldg., Cleveland, 2 story, brick, steel and concrete warehouse and garage, here, to A. C. Felver, Ashtabula. Archts. est. $40,000. Noted Apr. 26.

O., Cleveland—Belvoir Stone & Brick Co., 401 Engineers Bldg., 1 story, brick and steel plant, 50 ton capacity, South Euclid St., to F. W. Klein, 701 East 96th St. Archts. est. $150,000.

O., Cleveland — Prospect Auto Top & Painting Co., 2112 East 19th St., 1 story, 70 x 182 ft., brick and timber factory, to L. Dautel Co., 5710 Hough Ave. Archts. est. $40,000.

O., Elyria—Superior Metal Products Co., Bond and Adams Sts., 1 story, 60 x 160 ft., brick and steel factory, to Hankin-Conkey Constr. Co., Century Bldg., Cleveland. Archts. est. $40,000.

O., Mansfield—Standard Oil Co. of Ohio, East Ohio Gas Bldg., Cleveland, 2 story, brick, steel and concrete warehouse and garage, here, to E. E. Elford, 307 East Gay St., Columbus. Archts. est. $40,000. Noted Apr. 5.

Mich., Iron Mountain—Ford Motor Co., Highland Park (Detroit P. O.), design and construction of 10,000 hp. hydro electric plant, Menominee River, to Stone & Webster, Inc., 147 Milk St., Boston, Mass., 375 ft. dam and power station sub-structure will be designed by Mead & Seastone, State Journal Blk., Madison, Wis.

Ill., Chicago—Midway Corp., c/o A. S. Alschuler, archt., 28 East Jackson Blvd., 1 and 2 story, 125 x 148 ft. auto sales and service station, fireproof construction, 60th St. and Cottage Grove Ave., to Johnson-Anderson Co., 7120 Evans Ave. Archts. est. $175,000.

Kan., Wichita—Wichita Steam Laundry, 117-19 West 1st St., 1 story, 80 x 160 ft., brick laundry, plain foundation, Murdock and Wichita Sts., to Vandenberg & Son, 119½ South Lawrence St., $80,000.

Wis., Manitowoc—Globe Steam Laundry, 14th and Washington Sts., 2 story, 46 x 120 ft. laundry, rein.-con. and brick, plain foundation, to J. Rezach, Two Rivers. Noted Apr. 26.

Wis., Milwaukee—A. L. Richards, 90 Mason St., 1 story, 122 x 242 ft. garage, brick and steel, plain foundation, Knapp St., to Coddington Eng. Co., 290 3rd St. Engrs. est. $160,000.

Wis., Milwaukee—Misericordia Hospital, 22nd and Chestnut Sts., 2 story, 50 x 100 ft., power house and laundry, brick and concrete, Chestnut St., to E. Steigerwald & Sons, 2303 Galena St. Archts. est. $40,000.

Wis., Milwaukee — Nash Motors Co., Clement Ave., 1 story, 132 x 248 ft., warehouse, brick and steel, Clement Ave., to T. Stark & Co., 130 Muskegon Ave. Archts. est. $75,000.

Wis., Port Wing—Northern Wisconsin Hydro Electric Co., 60 x 95 ft., hydro-electric power plant, rein.-con., brick and steel, to Jacobson Eng. Co., 533 Metropolitan Bldg., Minneapolis, Minn. Engrs. est. $75,000. Noted Apr. 12.

Wis., Sturgeon Bay—Lake Shore Motor Co., 2 story, 50 x 62 ft. concrete and brick garage, plain foundation, to H. Anschutz, Sturgeon Bay. Archts. est. $40,000. Noted Feb. 8.

Wis., Waukesha—Quality Aluminum Casting Co., 505 Lake Ave., 1 story, 87 x 200 ft. foundry, concrete and steel, Lincoln Ave., general contract, to P. F. Gierke, 816 Lincoln Ave.; structural steel, to Wisconsin Bridge & Iron Co., North Milwaukee. Engrs. est. $50,000.

Ia., Waterloo—Rath Packing Co., Sycamore and Elm Sts., general contract 5 story and basement, 90 x 100 ft., cold storage and refrigerator plant, rein.-con. and brick, to G. W. Scales, 903 L. & S. Bldg., $76,118. Noted Apr. 5.

Industrial Works (Continued)

Minn., Minneapolis—Hohn & Tuscany, Co., 735 Temple Court, having plans prepared by P. E. Crosier, 915 New York Life Bldg., 1 story and basement, 66 x 200 ft. garage, brick and steel, 2820 Hennepin Ave. $40,000. Work will be done by day labor.

Minn., St. Paul—Ford Motor Co., Highland Park, Detroit, Mich., 18,000 h.p. power plant, here, to Stone & Webster, 147 Milk St., Boston. Noted Jan. 25.

Mo., St. Louis—A. Leschen & Sons Rope Co., 5909 Kennerly Ave., 1 story, 77 x 308 ft., rein.-con., brick and steel factory, plain foundation, to J. Stewart & Co., Boatsmens Bank Bldg. Archts. est. $75,000.

Mo., St. Louis — Hesse Envelope Co., Main and Vine Sts., 2 story, 180 x 190 ft., rein.-con. and brick factory, plain foundation, Kingshighway, to McBastel Constr. Co., 4208 Gravois Ave. Archts. est. $85,000.

Tex., Dallas—Dallas Power & Light Co., Dallas-Interstate Bldg., will build 1 story power house, rein.-con., along tracks Missouri, Kansas & Texas R.R., by day labor. $398,167.

Calif., Oakland—J. Breuner Co., 281 Geary St., San Francisco, 3 story, 160 x 240 ft. warehouse, heavy mill construction and rein.-con., Adeline and 22nd Sts., here, to P. J. Walker Co., Sharon Bldg., San Francisco, $175,000. Noted Mar. 29.

Calif., San Francisco—American Concrete Co., Humboldt Bank Bldg., will build 2 story, garage, concrete, McAllister St. near Central Ave., by day labor. $40,000.

Calif., San Francisco—Richard Hellman, Inc., Mills Bldg., 2 story, factory, brick and steel, 16th St. between Harrison and Alabama Sts., general contract to Neils Larsen, Monadnock Bldg., $90,000. Noted Nov. 16.

Calif., San Francisco—F. H. Meyer, 742 Market St., 2 story, factory, rein.-con., 5th and Shipley Sts., to G. Wagner, 251 Kearney St., $40,000. E. Wilson Co., 325 Geary St., lessee.

Calif., San Francisco—W. L. Hogan, 333 Kearny St., 1 story, 275 x 275 ft., garage and store building, rein.-con., Northeast Howard and 5th Sts., to W. S. King, Hearst Bldg., $126,000.

Ont., Toronto—Bradshaw Co. Ltd., 107 Atlantic Ave., 1 and 2 story and basement, 58 x 250 ft. rein.-con. and brick factory, to W. J. Trimble, 54 University Ave., $150,000.

Ont., Toronto—Toronto Electric Comrs., 225 Yonge St., let contracts for 2 story, rein.-con., brick and steel sub-station, Bay St., excav. to Lioni & Co., 1450 Dufferin St., structural steel to Hamilton Bridge Co., General Accident Bldg., plumbing to Mechanical Trade Co. Ltd., 54 University Ave. Total est. $100,000.

Buildings

PROPOSED WORK

Conn., Bristol — Nurses Home — Bristol Hospital Corp. receiving tentative sketches 3 story, brick and stone, plain foundation. $150,000. N. Jennings, 4 Oakland St., chn. building com.

Conn., Meriden — Bank, etc. — Meriden Savings Bank, 63 East Main St., plans brick and stone, plain foundation, East Main and Crown Sts. $150,000. Engineer and architect not selected.

Conn., Meriden — Business — L. Lawton, 580 Farmington Ave., plans 3 story, 65 x 110 ft., brick, plain foundation, East Main and State Sts. $165,000. Engineer and architect not selected.

Conn., Meriden—Dormitory—Connecticut School for Boys plans 3 story, brick, plain foundation. $150,000. E. S. Boyd, supt. W. T. Arnold, Hall and Lewis Blk., archt.

Conn., Hartford—Apartment—J. J. Wall, 401 Farmington Ave., having plans prepared by G. Zunner, 182 High St., two 3 story, 65 x 90 ft., plain foundation, Spanish architecture, Farmington Ave. $300,000.

Conn., Hartford—Church—Church of St. Ann having plans prepared by H. F. Ludorf, 122 Main St., New Britain, 2 towers, 60 x 200 ft., brick and terra cotta, plain foundation, Park and Putnam Sts. $165,000. J. V. E. Belanger, 820 Park St., pastor.

Conn., Hartford—School and Community —Lithuanian Roman Catholic Church of the Most Holy Trinity, plans 3 story, rein.-con. and brick, plain foundation, Capitol Ave. To exceed $150,000. J. J. Ambot, 53 Capitol Ave., pastor. Engineer and architect not selected.

Conn., Vernon—High School—Town having plans prepared by F. I. Cooper, 172 Tremont St., Boston, for George Sykes School, 2 story, rein.-con., and brick, plain foundation. $400,000.

Conn., Waterbury—Church and Parish House—Bunker Hill Congregational Church, c/o M. O. Owen, pastor, 22 Marion St., having plans prepared by F. A. Webster, 51 West Main St., brick, plain foundation, Bunker Hill. $200,000.

N. Y., Adams—School—Election soon to vote on $160,000 bonds new brick and concrete school and repairs and addition to present building.

N. Y., Amsterdam—High School—Bd. Educ. having plans prepared by G. L. Lockhart, 1353 University Ave., St. Paul, Minn., 4 story, 128 x 210 ft., brick, tile and stone. $450,000.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York, soon takes bids P. S. 177, 5 story, brick, steel and stone, Dahill Rd. $1,075,000. W. H. Gompert, Flatbush Ave. extension and Concord St., archt. and engr. Noted Aug. 10.

N. Y., Geneva—Hospital—Bd. Managers Geneva City Hospital plans brick, concrete and steel contagious ward building. $150,000. J. B. Anderson, pres.

N. Y., Ithaca—Recreation—Cornell University having revised plans prepared by Delano & Aldrich, archts. and engrs., 126 East 38th St., New York City, brick, steel and stone, plain foundation. $1,000,000. Noted July 6.

N. Y., Saratoga Springs—Hotel—Syndicate headed by B. Weissbrot, 110 Forsyth St., New York City, purchased site and plans 190 room brick, concrete and steel, here. $200,000.

N. Y., Yonkers—Apartment—Philipsburgh Constr. Co., 15 North Bway., having sketches made by A. J. and A. O. Suetendael, 15 North Bway., 5 story. $250,000.

N. J., Montclair—Bank—Montclair Savings Bank, 441 Bloomfield Ave., having plans prepared by T. M. James, archt. and engr., 342 Madison Ave., New York City, brick, steel and stone, plain foundation. $200,000.

N. J., Newark—School—St. Anthonius Roman Catholic Church, c/o Guilbert & Bettelle, archts. and engrs., 2 Lombardy St., having preliminary plans prepared brick and stone, plain foundation, South 8th St. $350,000.

Pa., Erie—Exchange—Mutual Telephone Co., 9th St., plans exchange, probably 5 story and basement, 10th St. $400,000. Engineer and architect not selected.

Pa., Nanty-Glo—Hospital—Citizens Com. conducting campaign to raise $150,000 for 3 story and basement, 90 x 100 ft. brick, tile and stone. $150,000. A. H. McAnulty, chn. F. A. Hersh and F. J. Shollar, 310-312 Commerce Bldg., Altoona, archts.

Pa., Phila.—Apartment—Simon & Simon, archts., 249 South Juniper St., soon takes bids 4 story and basement, 48 x 140 ft. brick, steel and stone, plain foundation, 38th and Chestnut Sts. $350,000. Owner's name withheld.

D. C., Wash. — Apartment-Hotel — M. Cafritz, 913 15th St., plans apartment-hotel, K and 14th Sts. $1,300,000. MacNeil & MacNeil, 14 West 45th St., New York City, archts.

D. C., Wash.—Church and Sunday School —St. Stephen's Episcopal Church, Newton and Center Sts., N. W., plans church and Sunday School. $200,000. Engineer and architect not selected.

D. C., Wash.—Home—Central Union Mission, 622 Louisiana Ave., N.W., having plans prepared by A. P. Clark, 816 14th St., N.W., for home. $200,000.

D. C., Wash.—Home—L. Luquer, archt., 819 15th St., N.W., takes bids latter part of month, for home at 3720 Upton St., N.W., for Washington Home for Incurables, 3200 S St., N.W. $275,000. Noted May 3.

W. Va., Charleston—Hospital—Wyson & Jones, archts., Professional Bldg., soon let contract for 5 story and basement, 50 x 108 ft., brick, steel and tile, Virginia Ave., for Mountain State Hospital Co. $200,000.

W. Va., Weirton — Theatre — S. Manos, Steubenville, O., plans brick, steel and concrete, here. $150,000. Engineer and architect not announced.

N. C., Durham—Hotel and Store—Newly organized company (city interested) plans 10 story and basement, 200 rooms, fireproof, Market St. $1,000,000. Address R. W. Rigsbee, city mgr.

N. C., Durham—Municipal—City plans to remodel old high school and convert same into municipal building, also plans wing to new high school. To exceed $150,000. R. W. Rigsbee, city mgr.

N. C., Hickory — College — Lenoir College plans fine arts building and girls' dormitory. $300,000. O. H. Pennkoke, Hickory, pres.

N. C., Kinston — Schools — City sold $200,000 bonds for remodeling existing buildings, adding additional rooms and installing heating plants for white and negro schools. Noted Jan. 25.

S. C., Gaffney—School—City plans 2 story, brick and concrete. $165,000. J. A. Baldwin, Anderson, archt.

La., Hahnville — School — St. Charles Parish School Bd. having plans prepared by W. R. Burk, Balter Bldg., New Orleans, 2 story, 128 x 143 ft. brick. $175,000.

Ky., Ashland—Hotel—Hotel Buckingham plans 11 story, 250 room hotel. $1,000,000. Engineer and architect not selected.

Ky., Louisville—Apartment and Store—H. G. Talamini, W. G. Apartments, plans 10 story, 100 x 200 ft, 3rd and York Sts. $1,000,000. Engineer and architect not selected.

Ky., Louisville — Bank — Federal Land Bank, 4th St. and Bway., plans bank. To exceed $300,000. Address C. E. Davis, pres. Engineer and architect not selected.

Ky., Louisville—Clinic—T. M. Dorsey, Francis Bldg., plans 3 story (ultimately 6 story), 45 x 134 ft., 2nd and Chestnut Sts. $85,000 (ultimately cost $150,000). Engineer and architect not selected.

Ky., Louisville—Office—F. G. Breslin, 32nd and Market Sts., plans 18 story, 95 x 175 ft., 3rd St. and Bway. $1,500,000. Engineer and architect not selected.

Ky., Louisville—Store—W. Heyburn, 403 West Ormsby St., plans 10 or 12 story, 4th St. near Bway. $1,000,000. Joseph & Joseph, Francis Bldg., archts.

Ky., Lexington—Temple—Oleika Shriners having plans prepared by J. V. Moore, 341 McClelland Bldg., for temple. $250,000.

O., Canton—Mercantile—W. S. Ney & Co., 207 Ry. Exch. Bldg., Kansas City, Mo., plans 5 story, 66 x 200 ft., Market Ave. and 5th St., here. $200,000 or more. Engineers' and architects' names not available.

O., Cleveland—Apartment—Wullinger & Fishman, 5511 Ensign Ave., having plans prepared by Braverman & Havermaet, archts., Ulmer Bldg., 3 story and basement, 50 x 120 ft., brick and steel, 1870 East 75th St. $150,000.

O., Cleveland Heights (Warrensville, P. O.) —Store and Apartment—Syndicate of Investors, c/o J. Laronge, 214 Williamson Bldg., Cleveland, plans 3 story, brick, on 130 x 320 ft. plot, Coventry Rd., here. $250,000. Engineers and architects names withheld.

O., Columbus—Store—Erner & Hopkins Co., 146 North 3rd St., plans 4 story and basement, 75 x 125 ft., brick and concrete, 4th St. $200,000.

O., Lakewood (Cleveland, P. O.)—Commercial and Theatre—S. H. Stecker, Society for Savings Bldg., Cleveland, having plans prepared by N. Petti, Williamson Bldg., Cleveland, 2 story and basement, 95 x 170 ft., brick, steel and concrete, Detroit and Woodward Aves., here. $200,000.

O., Painesville — Hospital — Lake Co. Hospital Comn., c/o L. J. Spaulding, c/s Court House, having preliminary plans prepared by F. C. Warner, 767 Hippodrome Annex Bldg., Cleveland, 2 story, brick, steel and concrete. $200,000. Noted Nov. 23.

Mich., Bad Axe—High School—S. Butterworth, archt., Prudden Bldg., Lansing, opens bids about June 1, 2 story and basement, 134 x 137 ft. rein.-con., brick and steel. $150,000. Noted Mar. 29.

Mich., Detroit — Apartment — H. J. Darling, archt., 901 Empire Bldg., preparing preliminary plans 3 story and basement, brick and steel, plain foundation, Hamilton Ave. $175,000. Owners name withheld.

Mich., Detroit—Apartment—J. Kasurin, archt., 512 Empire Bldg., preparing plans 4 story and basement, 65 x 190 ft. brick and steel, plain foundation, Hancock Ave. $200,000. Owners name withheld.

Mich., Detroit—Apartment—G. Marks, c/o Abraham & Wood, archts., 705 Kresge Bldg., having plans prepared 4 story and basement, 42 x 125 ft. brick and steel, plain foundation, Trumbull Ave. and Ash St. $150,000.

Mich., Detroit — Apartment — Varney & Varney, archts., 1422 Washington Blvd., preparing plans 3 story and basement, 90 x 140 ft. brick and steel, plain foundation, Quincy Ave. $175,000. Owners name withheld.

Mich., Detroit—School—St. Leos Parish, c/o Donaldson & Meier, archts., 1314 Penobscot Bldg., having plans prepared 3 story, 72 x 145 ft. brick, steel and stone, 14th Ave. $150,000.

Buildings (Continued)

Mich., Grand Rapids—School—Bd. Educ. having plans prepared by Osgood & Osgood, Grand Rapids, (street address not available), brick and stone addition to Oakdale School. $150,000.

Mich., Lansing—Hotel—Roosevelt Hotel, having plans prepared by S. Butterworth, Prudden Bldg., 4 story and basement, 70 x 160 ft. rein.-con. and brick, plain foundation. Seymour St. $250,000.

Mich., St. Johns—High School—Bd. Educ., rejected bids for Wilson High School, 2 story and basement, 190 x 275 ft. May revise plans. $175,000. S. Butterworth, Prudden Bldg., Lansing, archt.

Mich., Wayne—School—Bd. Educ. having plans prepared by A. Clubb, 426 Goebel Bldg., Detroit, 3 story, 200 x 205 ft. rein.-con., brick and steel, plain foundation. $300,000.

Ill., Berwyn—Theatre, Stores and Office—E. P. Rupert, archt., 19 South La Salle St., Chicago, preparing plans 2 story, 125 x 182 ft., fireproof. Ridgeland Ave. and 22nd St., here. Owner c/o B. Burnacek, 1940 South 63rd St., Berwyn. $200,000.

Ill., Champaign—Station—Illinois Central R.R., 135 East 11th Pl., Chicago, plans railroad station and additional subway tracks, here. $185,000. F. L. Thompson, ch. engr.

Ill., Chicago—Apartment—Rettig Building Corp., c/o E. E. Hall, archt., 123 West Madison St., plans 10 story, 124 x 269 ft., rein.-con., brick and steel, Stony Island Ave. between 66th and 67th Sts. $2,500,000.

Ill., Chicago—Nurses' Home—Austin Hospital Assn., Austin, plans nurses' home, rein.-con., brick and steel, Central St. near Flournoy St. $150,000. J. E. O. Pridmore, 38 South Dearborn St., archt.

Ill., Chicago—Office—Illinois Central R.R., 135 East 11th Pl., plans 7 story, 80 x 130 ft., rein.-con., brick and steel, 1201 South Michigan Ave. $200,000. D. F. McLaughlin, 135 East 11th Pl., archt.

Ill., Chicago—Store, Apartment and Office—W. D. McJunkin, c/o Marshall & Fox, archts., 721 North Michigan Ave., plans 3 story, 40 x 465 ft., rein.-con., brick and steel, Wilson St. and Bway. $250,000.

Ill., Oak Park—Store and Office—S. Koenigsberg, c/o Koenigsberg & Weisfeld, archts., 5 North La Salle St., Chicago, having plans prepared 4 story, 71 x 97 ft., fireproof. Lake and Marion Sts., here. $200,000.

Wis., Madison—Auditorium—Madison Auditorium Co., 357 Washington Bldg., plans 3 story, rein.-con., brick and steel, Main St. $250,000. C. C. Doring, pres. Engineer and architect not selected.

Wis., Madison—Hotel—Wisconsin Hotel Realty Co., 86 Michigan St., had plans prepared and soon takes bids 12 story and basement, 132 x 144 ft., brick and concrete, plain foundation, West Washington and Fairchild Sts. $1,500,000. M. Tullgren & Sons Co., 425 East Water St., Milwaukee, archts. Noted Mar. 29.

Wis., Reedsburg—Theatre—O. V. Kelley having plans prepared by R. S. Chase, 117 Locust St., Janesville, 2 story and basement, 50 x 130 ft., rein.-con., brick and steel. $150,000.

Ia., Conrad—School—Bd. Educ. plans 2 or 3 story and basement, rein.-con., brick, tile and stone. $150,000. E. L. Guild, secy. Architect not announced.

Ia., Sioux City—High School—Bd. Educ. having plans prepared by Beuttler & Arnold, Grain Exch. Bldg., rein.-con. and brick senior high school. $400,000. Noted Mar. 22.

Minn., Minneapolis—Administration, etc.—William Hood Dunwoody Industrial Institute, 816 Superior Blvd., having plans prepared by Hewitt & Brown, 1200 2nd Ave. S., for administration building, gymnasium, auditorium and library, 2 story and basement, 206 ft. long, with 60 and 100 ft. wings, brick and stone, Superior Ave. near Lyndale Ave. N. $200,000. C. A. Prosser, dir.

Minn., St. Paul—Lodge—Fraternal Order of Eagles, Aerie 33, having plans prepared by G. F. Stewart, 207 Pittsburgh Bldg., 3 story and basement, rein.-con., brick and tile, 12th and Wabasha Sts. $225,000. J. F. Sperry, 207 Pittsburgh Bldg., chn. building com.

Kan., Kansas City—Memorial—City had plans prepared by Rose & Peterson, 434 Brotherhood Bldg., 3 story and basement, rein.-con., terra cotta and stone, 7th and Barrett Sts. $500,000.

Kan., Sabetha—Hospital—St. Anthony Hospital, plans 3 story and basement, 44 x 140 ft., rein.-con. and brick. $150,000-$175,000. Will mature in fall. C. A. Smith, 109½ Santa Fe St., Salina, archt.

Kan., Wichita—Clubhouse—B. P. O. E. having plans prepared by E. Forsblom, 305 Sedgwick Bldg., and soon takes bids 140 x 150 ft. rein.-con., brick and stone. $500,000. H. A. Noble, 411 Reliance Bldg., Kansas City, Mo., engr.

Mo., Kansas City—Business—Jenkins Music Co., 1013 Walnut St., having preliminary plans prepared by C. A. Smith, 612 Finance Bldg., 10 story and basement, rein.-con., steel, stone and terra cotta, 1013-23 Walnut St., $500,000.

Mo., Kansas City—High School—C. A. Smith, archt., 612 Finance Bldg., takes bids about June 1, Westport Jr. High School, 6 story and basement, 125 x 200 ft., rein.-con., brick, steel and stone, 39th St. and Hyde Park, for Bd. Educ. $850,000.

Mo., Kansas City—Hospital—Heart of America Hospital Assn., plans hospital, 31st St. and Tracy Ave. $1,000,000. Engineer and architect not selected.

Mo., Kansas City—School—Bd. Educ., having plans prepared by C. A. Smith, 612 Finance Bldg., 1 story and basement, 150 x 200 ft., rein.-con., steel and stone, 70th and Askew Sts. $250,000.

Mo., Kansas City—School—C. A. Smith, archt., 612 Finance Bldg., receives bids between June 1 and 15, 2 story and basement, 60 x 140 ft., rein.-con., brick, steel and stone addition to Mt. Washington School for Bd. Educ. $200,000.

Mo., Kansas City—School—C. A. Smith, archt., 612 Finance Bldg., takes bids about June 1, 2 story and basement, 60 x 140 ft., rein.-con., brick, steel and stone addition to Bristol School, Maywood St., for Bd. Educ. $180,000.

Mo., St. Louis—School—Kentucky Riding School, 5078 Easton Ave., plans 2 story, rein.-con. and brick, plain foundation, Papin St. $150,000. Engineer and architect not announced.

Mo., Warrensburg—High School—Voted $200,000 bonds rein.-con., brick and stone. Engineer and architect not selected.

Okla., Oklahoma City—Office—Physicians, Surgeons and Nurses Exch., 41 Continental Bldg., plans 9 story and basement, 125 x 140 ft., brick, Robinson and 1st Sts. $1,000,000. Owner's name withheld. Engineer and architect not selected.

Ore., Portland—Schools—Bd. Educ. School Dist. 1, Administration Bldg., having plans prepared by C. L. Goodrich, Failing Bldg., for Beaumont School, $175,000; by F. M. White, Sherlock Bldg., for Oakley Green, Sunnyside and Portsmouth Schools, $275,000 each. Noted Jan. 18.

Calif., Bishop—Hotel—H. Shermund, archt., Hearst Bldg., San Francisco, preparing plans hotel, 98 rooms, main room 50 x 100 ft., timber and stone, near here. $150,000. Owner's name withheld.

Calif., Centerville—High School—Washington Union High School Dist. takes bids in about a month, brick and concrete. $150,000. H. H. Meyers, Kohl Bldg., San Francisco, archt. Noted Feb. 8.

Calif., Eureka—Store and office—E. Ricks plans 3 story and basement, probably rein.-con., 4th and F Sts. $200,000. Engineer and architect not selected.

Calif., Lemoore—School—Lemoore Union High School Dist. having plans prepared three 1 and 2 story school buildings, incl. auditorium, gymnasium and shop, rein.-con. $325,000. W. H. Weeks, 369 Pine St., San Francisco, archt. Noted May 3.

Calif., Long Beach—Apartment—D. B. Carlin, 45 Alboni St., had preliminary plans prepared by W. H. Austin, 1st National Bank Bldg., for fireproof apartment, approximately 8 story, East 1st St. To exceed $750,000.

Calif., Long Beach—Office—J. C. Lindsey and W. Horne Co., agents, 38 American Ave., having plans prepared by Walker & Eisen, Pacific Finance Bldg., Los Angeles, 13 story, 80 x 120 ft., rein.-con., 3rd St. $900,000.

Calif., Los Angeles—Hotel—M. L. Garrigus, 5463 Santa Monica Blvd., having plans prepared by L. L. Jones, Grosse Bldg., 4 story, brick, Santa Monica Blvd. $150,000.

Calif., Los Angeles—Hotel—F. Siegel, 414 Chapman Bldg., plans 14 story, Figueroa St. To exceed $500,000. Engineer and architect not selected.

Calif., Los Angeles—Office—Standard Oil Co., Standard Oil Bldg., San Francisco, having plans prepared by G. W. Kelham, archt., and H. J. Brunnier, engr., Sharon Bldg., San Francisco, 8 story, fireproof, Hope and 10th Sts., here. $1,000,000.

Calif., Los Angeles—Office and Bank—Bank of Italy, Bank of Italy Bldg., plans office and bank, Hollywood Blvd. To exceed $200,000.

Calif., Piedmont—School—Piedmont School Dist. rejected bids 2 and 3 story, rein.-con. $150,000. Will revise plans. W. H. Weeks, 369 Pine St., San Francisco, archts. Noted May 3.

Calif., Pomona—Lodge and Club—B.P.O.E. having plans prepared by F. K. Benckley, Fullerton, 2 story, 110 x 145 ft., brick, Holt St. $150,000 or more.

Calif., San Bernardino—Courthouse—San Bernardino Co. plans first unit of courthouse. $75,000. Another unit will be built later, to cost $150,000. H. E. Jones, Katz Bldg., archt.

Calif., San Francisco—Apartment—M. A. Little, Green and Baker Sts., plans 12 story, fireproof, Southwest Taylor and O'Farrell Sts. To exceed $250,000. Engineer and architect not selected.

Calif., San Francisco—Hotel—St. Francis Hotel Co., Powell and Geary Sts., having plans prepared by Bliss & Faville, Balboa Bldg., 5 story (ultimately 10 story) and basement, annex, probably rein.-con., Post St. near Powell St. $1,000,000.

Calif., San Francisco—Theatre—C. A. Nathan (Universal Film Exchange), 221 Golden Gate Ave., plans theatre, Market St. opposite 5th St. $500,000. Engineer and architect not selected.

Ont., Guelph—Normal School—Provincial Dept. Educ., Parliament Bldgs., Toronto, plans 3 story and basement, 20 room, brick, at Agricultural College, here. $500,000. F. R. Heakes, c/o owner, archt.

Ont., Hamilton—Office—J. E. Lister, 133 Glenfern Ave., having plans prepared by B. H. Prack, Bay St., Toronto, 8 story and basement, 115 x 135 ft. rein.-con., brick and steel. $300,000.

Ont., Hamilton—Theatre—G. Swanwick, 108 St. James St. N., plans 2 and 3 story and basement, concrete, brick and steel. $200,000. Engineer and architect not appointed.

Ont., Oshawa—High School—Bd. Educ., Dominion Bank Chambers, plans 2 or 3 story and basement, 15 rooms, brick, steel and concrete. $150,000 to $200,000. Engineer and architect not selected.

Ont., Toronto—Collegiate—Bd. Educ., 155 College St., having plans prepared by C. Dyson, 155 College St., 2 story and basement, 8 room addition to Riverdale Collegiate, concrete, brick and tile. $150,000.

BIDS DESIRED

Mass., Springfield—Mercantile—May 25, by Smith & Annable, Inc., archts., 145 State St., 4 story, 77 x 100 ft., brick and steel, plain foundation, Taylor St., for H. J. Perkins, Dwight St. $150,000. U. S. Rubber Co., 211 Worthington St., lessee. Noted Feb. 23.

Conn., Hartford—Apartment—J. E. Marchetti, archt., 721 Main St., taking bids and opens same about May 21, 2 and 3 story, 60 x 70 ft. and 60 x 90 ft., brick, plain foundation, Retreat Ave., for D. Marra, 27 Kilbourne St. $200,000. Noted May 10.

Conn., West Hartford (Hartford P. O.)—Temple—June 1, by C. S. Griswold, chn. building com., Wyllis Lodge 90, Masonic Hall Assn., 2 story and basement, 40 x 70 ft. brick, plain foundation. $150,000. W. T. Arnold, Hall & Lewis Blk., Meriden, archt.

N. Y., Mount Morris—School—June 5, by Bd. Educ. Mount Morris Union Free School Dist., new school and repairing present school. C. A. Foote & Son, Mount Morris, archts.; adv. this issue. Noted Mar. 15.

N. Y., New York—School—May 23, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, annex to P. S. 72, East 104th and East 105th Sts. 55 ft. west from Lexington Ave., here, for Bd. Educ.

N. Y., Roosevelt—School—May 22, by Bd. Educ., brick, steel and stone, plain foundation. $150,000. Tooker & Marsh, 101 Park Ave., New York City, archts. Noted Apr. 26.

N. J., Bloomfield—High School—May 21, by Bd. Educ., 4 story, 25 x 140 ft., brick and stone addition, Broad St. $225,000. J. F. Caspen, 207 Market St., Newark, archt. J. O. C. Gibbons, 207 Market St., Newark, engr.

N. J., Haworth—School—June 1, by Bd. Educ., Terrace St., new school. F. M. Robertson and A. C. Pauli, 247 Park Ave., New York City, archts.; adv. this issue.

Pa., Clearfield—Church and Sunday School—West Side Methodist Episcopal Congregation taking bids 1 story, 50 x 100 ft. and 60 x 84 ft. brick and stone. $150,000. J. C. Fulton & Son, Uniontown, archt.

Pa., Phila.—Hotel—F. E. White, archt., Pennsylvania Bldg., taking bids 28 story, basement and sub-basement, 84 x 119 ft. rein.-con., brick, steel, 15th and Ranstead Sts., for Kugler Hotel Co., Pennsylvania Bldg. $5,000,000.

Pa., Phila.—Office—May 19, by Porter, Thomas & Rice, archts., Union Trust Bldg., Baltimore, Md., 4 story and basement, 53 x 94 ft. rein.-con., brick, steel and stone, 129 South 5th St., for U. S. Fidelity Guarantee Co., 315 Walnut St. $500,000.

Buildings (Continued)

Pa., Williamsport—Church—May 23, by Building Com. First Church of Christ, 1st unit, 2 story and basement, 60 x 60 ft. brick and stone, West 3rd and Walnut Sts. $150,000. W. D. Shollenberger, 1522 Scott St., archt. Noted Apr. 19.

Md., Baltimore—Store—May 19, by S. Russell, archt., 11 East Lexington St., 3 story and basement, 25 x 167 ft., brick, plain foundation, 411 North Howard St., for Excello Illuminating Co., 312 North Eutaw St. $175,000. Noted May 10.

W. Va., Charleston — Hospital — W. P. Ginther, archt., Everett Bldg., Akron, O., receiving bids 4 story and basement, 90 x 108 ft., here, for St. Francis Hospital, 333 Laidley St. $150,000.

N. C., Greensboro—Schools—May 21, by Guilford Co. Bd. Educ., three 8 room schools, brick, at Colfax, Jonesboro and Sumner. $200,000. T. R. Foust, co. supt. Linthcum & Linthcum, 117 West Martin St., Raleigh, archts. Noted May 3.

Ky., Louisville—Temple—Joseph & Joseph, archts., Francis Bldg., receiving bids 7 story, 200 x 260 ft., steel, Bway., for Kosairs. $1,750,000. Noted Apr. 12.

O., Cleveland—Commercial and Apartment—United States Mortgage Co., c/o M. P. McCallum, constr. mgr., Hickox Bldg., taking bids and opens same about May 29, 3 story and basement, 66 x 170 ft., brick, steel and concrete, St. Clair Ave. near Hayden Ave. $150,000. Private plans.

O., Cleveland—School—June 1, by W. C. Jansen, archt., 402 Electric Bldg., Cleveland, 2 story, 16 room, brick, steel and concrete, East 92nd St. and Holton Ave., for St. Ladislaus Slovenian Church, 2813 East 92nd St. $150,000. Noted Aug. 31.

O., Columbus—Office—May 24 (change of date), by F. L. Packard, archt., 16 East Broad St., 8 story and basement, 80 x 96 ft., brick, concrete and terra cotta, 4th and Broad Sts., for M. L. Yuster, Parkview Ave. and Broad St. $400,000. Noted May 3.

Mich., Detroit—Apartment—J. W. Wilson, archt., 17 Campus Martius, taking bids and opens same about May 25, 10 story and basement, 113 x 128 ft., rein.-con., brick and steel, plain foundation, John R St., here, for G. J. Hilsendegen, 185 Lockmoor Blvd., Grosse Pointe.

Ill., Chicago—Apartment—V. M. Huntington & Co., 5617 West Madison St., receiving bids 3 story and basement, 120 x 140 ft. fireproof construction, 238-246 North Parkside Ave. $175,000. Kreig & Hetherington, 105 North Clark St., archts.

Ill., Chicago—Apartment—Leichenko & Esser, archts., 38 South Dearborn St., receiving bids 3 story and basement, 70 x 160 ft., fireproof construction, 2544-60 East 72nd St. for Southern Arms Building Corp., c/o architects. $200,000.

Ill., Chicago—Hotel and Store—S. Dakin, 6134 Vernon Ave., receiving bids 3 story, 106 x 150 ft., rein.-con., brick and steel, 22nd St. near Keystone Ave. $200,000. Loewenberg & Loewenberg, 111 West Monroe St., archts.

Ill., Evanston—Apartment—A. H. Quitsow, archt., 11 South La Salle St., Chicago, receiving bids 3 story and basement, 100 x 155 ft., fireproof construction, here. $175,000. Owner's name withheld.

Wis., Fond du Lac—School—May 25, by Stepnoski & Mehner, archts., Forest Ave., 2 story and basement, 175 x 221 ft., brick, tile and concrete, plain foundation, for St. Patrick's Congregation, 19 East Follett St. $150,000. Noted Feb. 22.

Wis., Milwaukee—Theatre—Business—May 25, by M. Tullgren & Sons Co., associated archts., 425 East Water St., 4 story and basement, 125 x 150 ft., brick and concrete, plain foundation, Mitchell St., for Saxe Amusement Enterprises, 204 11th St. $450,000. C. W. and G. L. Rapp, 190 North State St., Chicago, archts. Noted Mar. 29.

Wis., Viroqua—High School—School Bd. taking bids and opens same about June 4, 2 story, 89 x 180 ft., brick, tile and concrete, plain foundation. $150,000. E. J. Hancock, Laycock Bldg., Eau Claire, archt.

Ia., Sioux City—High School—May 21 by Beuttler & Arnold, archts., Grain Exch. Bldg., 3 story and basement, 82 x 130 ft. rein.-con., junior high school, for Bd. Educ. $150,000. Noted Mar. 22.

Ia., Woodward—Hospital—May 22, by H. F. Liebbe, state archt., Des Moines, 2 story and basement, 220 x 243 ft. rein.-con., brick and stone, here, for State Hospital Comn., Des Moines.

Minn., Ely—High School—June 4, by G. H. Ayers, secy. Bd. Educ., 3 story, 200 x 300 ft., rein.-con. and brick, plain foundation. $475,000. Bray & Smith, 617 Torrey Bldg., Duluth, archts. and engrs. Noted Dec. 21.

Tex., Dallas—Church—Tyler St. Methodist Church, Tyler St., taking bids 1 story, basement and balcony, 83 x 168 ft., concrete, brick and stone, plain foundation. $150,000. J. W. Westbrook, 407½ North Bishop St., engr. and archt. Noted Apr. 5.

Okla., Norman — Church — June 1, by Secretary of Methodist Episcopal Church South, 1 story, stone, Gothic type. $300,000. R. H. Hunt & Co., South West Life Bldg., Dallas, Tex., archts. Noted Mar. 15.

Okla., Tulsa—Hotel—June 1, by L. R. Shumway, archt., 603 Wright Bldg., 10 story and basement, 100 x 140 ft. rein.-con. addition 3rd and Cincinnati Sts., for H. R. Ketchum, 509 South Main St. $500,000.

Calif., Los Angeles—Hotel—H. Cross, archt., Merchants National Bank Bldg., receiving bids 6 story and basement, 120 rooms, brick, Francisco St., for F. G. and E. H. Jansen, c/o architect. $150,000.

BIDS RECEIVED

N. Y., Albany—Schools—Bd. Contr. & Supply, general contract for 13th Ward school, from McCann Building Co., 68 State St., $244,200, heating and ventilating work, from J. Hunter Heating & Contg. Co., 68 Liberty St., $35,663; general contract for 2 wings on School 19, New Scotland Ave., from J. P. Sewell, 471 Hamilton St., $202,000, heating and ventilating, from E. W. Thompkins & Co., 27 Green St., $40,600.

O., Athens—High School—Bd. Educ., 2 story and basement, 83 x 171 ft., brick, concrete and stone, from Murch Bros. Constr. Co., Ry. Exch. Bldg., St. Louis, Mo., $249,000. Noted Apr. 26.

O., Cleveland—Hospital—R. S. Harsh, archt., Ohio-Hartman Bldg., Columbus, May 4, 2 story and basement, 180 x 180 ft., brick and concrete with 100 x 100 ft court in center, at Cleveland State Hospital, here, from Schirmer-O'Hara Co., 2031 Euclid Ave., for Dept. Pub. Welfare, 9th and Oak Sts. $155,000. Noted Jan. 11.

O., Mt. Vernon — Memorial — Memorial Building Comn., 2 story and basement, 100 x 140 ft., brick, concrete and stone, from Willing Bros., Bellevue, $207,408. Noted May 19.

O., Rock Creek—School—Bd. Educ., May 1, 2 story, brick, steel and concrete, from Howell & Noble, Warren, $123,841. Noted Apr. 26.

Wis., Appleton—Temple—Appleton Masonic Temple Assn., and Leenhouts & Guthrie, archts., 424 Jefferson St., Milwaukee, 3 story and basement, concrete and stone, from C. R. Meyer & Sons Co., 50 State St., Oshkosh. Archts. est. $150,000. Noted Apr. 26.

Wis., Milwaukee — Apartment-Hotel — Grand Plaza Apartment Co., c/o Rosman & Wierdsma, archts., 424 Jefferson St., (superstructure) 6 story, 122 x 132 x 186 ft., brick, Grand Ave., from S. M. Siesel, 160 Ogden Ave., $226,600.

Minn., Glen Lake (Hopkins, P. O.)—Sanatorium Group—Hennepin Co., Sanatorium Comn., opened bids May 8, group of buildings, incl. 6 story and basement infirmary, employees building, addition to nurses home, 2 garages, rein.-con., brick and tile, general contract from Carlsted Bros., 542 Builders Exch., Minneapolis, $409,120. Noted Apr. 26.

Calif., Norwalk—High School—Excelsior Union High School Dist., group of buildings, brick and timber, general contract from J. W. Davison, 361 Walnut St., Long Beach. $192,432. Noted Apr. 19.

CONTRACTS AWARDED

Mass., Boston—School—City Schoolhouse Comn., 1007 City Hall, 2 story and basement, 61 x 140 ft., brick, concrete and steel, plain foundation, Dudley St., to T. O'Connor Co., Kendall Sq., Cambridge (Boston P. O.). Archts. est. $200,000. Noted Feb. 1.

Mass., Northampton—Store and Apartment—H. A. Goodwin, 62 Center St., Florence, 3 story, 98 x 120 ft., brick, plain foundation, Main and Maple Sts., here, to La France Constr. Co., 292 Maple St., Holyoke, $150,000.

Mass., West Springfield (Springfield P. O.) — High School — Town, 2 story, brick and steel, plain foundation, Lathrop St., to Beacon Constr. Co., 110 State St., Boston, $250,000. Archts. est. $290,000. Noted Apr. 4.

Conn., New Britain — Business — R. Podesta, 510 Main St., 3 story, 50 x 100 ft., brick, plain foundation, 514 Main St., to C. Cianci, 350 Elm St. Archts. est. $150,000. Noted May 3.

Conn., New Haven—Museum—Day & Klauder, archts., 925 Chestnut St., Phila., 3 story, 175 x 243 ft., brick, stone and steel, plain foundation, Whitney Ave., to Sperry & Treat Co., 39 Church St., New Haven, for Yale University. Archts. est. $1,000,000. Noted Apr. 26.

Conn., Norwalk—Store—S. J. Kantor, 4 story, 65 x 100 ft., brick, plain foundation, Main St., to United Building Constr. Co., Room 212 Warner Bldg., Bridgeport. Archts. est. $150,000.

Conn., Waterbury—Church—St. Stanislaus Roman Catholic Church, 80 x 120 ft., brick and stone, plain foundation, East Farms, to G. S. Chatfield Co., 138 Division St. Archts. est. $150,000. Noted Apr. 12.

N. Y., Brooklyn—Apartment—Kenning & Parker, c/o Cohn Bros., archts. and engrs., 361 Stone Ave., will build 5 story, brick, steel and stone, plain foundation, Buffalo Ave., by day labor. $250,000.

N. Y., Brooklyn—Apartment—A. Klein, c/o Shampan & Shampan, archts. and engrs., 50 Court St., will build 100 x 125 ft., brick, steel and stone, plain foundation, Crown St. and Troy Ave., by day labor. $200,000

N. Y., Brooklyn—School—W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., P. S. 142, 5 story, 60 x 100 ft., brick, steel and stone, plain foundation, Henry and Rapelyea Sts., to Willetts Constr. Co., 280 Madison Ave., New York. $397,057. Noted May 3.

N. Y., Marion—School—Bd. Educ., brick, steel and stone, plain foundation, to L. J. Held, 25 Main St. E., Rochester. Archts. est. $200,000. Noted Mar. 29.

N. Y., New York—Exchange—New York Telephone Co., 15 Dey St., 6 story, brick, steel and stone plain foundation, Manhattan Ave., to D. C. Weeks & Son, Inc., 347 Madison Ave. Archts. est. $400,000. Noted Apr. 12.

N. Y., New York—Gymnasium—Fordham University, Fordham Rd., 2 story, cut stone, brick and steel, on campus, to Burke Bros. Constr. Co., 1480 Bway. Archts. est. $250,000. Noted Apr. 26.

N. Y., New York—Office—Six Seventeen Fifth Ave. Corp., c/o Margon & Glaser, archts. and engrs., 2804 3rd Ave., will build 45 x 100 ft., brick, steel and stone plain foundation 617 5th Ave., by day labor. $500,000.

N. Y., Penn Yan—Hospital—Building Committee of Soldiers & Sailors Memorial Hospital, general contract, to B. F. Rogers, Penn Yan, $110,000. Noted Apr. 12.

N. Y., St. Albans (Jamaica, P. O.)—School—W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., Brooklyn, P. S. 36, Bell St., here, to Willetts Constr. Co., 280 Madison Ave., New York City, $368,000. Noted May 3.

N. Y., White Plains — Hospital — White Plains Hospital, New York Post Rd., 3 story, brick, steel and stone addition, plain foundation, to Warren E. Green Co., 70 East 45th St., New York. Archts. est. $250,000.

Pa., Derry—High School—Bd. Educ., 2 story and basement, 126 x 200 ft. brick and tile, to Carstensen & McLain, 330 Swank Bldg., Johnstown, $135,000. Noted Apr. 26.

Md., Baltimore—School—Mayor and City Council, 3 story and basement, 60 x 227 ft., rein.-con. and brick, plain foundation, Nevada and 1st Sts., to J. L. Robinson Constr. Co., 1130 West Lafayette Ave., $419,974. Noted May 10.

Va., Charlottesville—Hospital, etc.—University of Virginia, hospital addition, to W. P. Thurston Co., Merchants Natl. Bank Bldg., Richmond, $115,000. Foregoing is 1st unit of proposed expansion program, incl. 14 new buildings, $3,000,000.

W. Va., Charleston — Temple — Baptist Temple Congregation, 2 story and basement, 136 x 200 ft., brick, stone, steel and tile, Quarrie and Morris Sts., to Ring Hartman Co. Inc., Jannett Bldg. Archts. est. $350,000. Noted Feb. 1.

N. C., Raleigh — Institutional — State School for Blind, gymnasium, cold storage plant and other buildings, general contract to Jewell, Riddle & Co., Sanford, $150,000. Noted Apr. 19.

La., New Orleans—Office—Western Union Telegraph Co., 301 St. Charles St., 4 story, 35 x 130 ft. steel and stone, Perdido and Carondelet Sts., to Stone & Webster, 147 Milk St., Boston, Mass.

O., Columbus—Office—Jeffrey Mfg. Co., 4 story, brick and concrete, 4th St. and 1st Ave., to Stone & Webster, Inc., 147 Milk St., Boston, Mass.

O., Elyria—Club—Loyal Order of Moose, c/o W. Campbell, 357 East Broad St., 2 story and basement, 60 x 120 ft., brick, steel and concrete, to Hunkin-Conkey Constr. Co., Century Bldg., Cleveland. Archts. est. $150,000. Noted Sept. 21.

Buildings (Continued)

O., Toledo—Bank and Office—Home Savings Bank, Madison and Superior Sts., 9 story and basement, 59 x 119 ft., brick, steel and concrete, Huron and Madison Sts., to Spieker Constr. Co., Elm and Utica Sts. Archts. est. $1,000,000. Noted Mar. 22.

Mich., Ann Arbor—Law—York & Sawyer, archts., 50 East 41st St., New York City, brick, steel and stone, South Michigan Ave. here, to Starret Bros., Inc., 101 Park Ave., New York City, for University of Michigan, Ann Arbor. Archts. est. $2,000,000.

Mich., Detroit—Clubhouse—Womens City Club, 141 Bagley Ave., 6 and 9 story, 90 x 120 ft. rein.-con., brick and steel, plain foundation, Park and Elizabeth Sts., to Walbridge-Aldinger Co., 2356 Penobscot Bldg. $500,000. Noted May 10.

Mich., Grand Rapids—Apartment—B. H. Drollinger, 4807 West Madison Ave., Chicago, 5 story and basement, 116 x 229 ft., here, to Mastenbrook & Grove, Shephard Bldg. Archts. est. $500,000.

Mich., River Rouge—Office—Ford Motor Co., Highland Park (Detroit P. O.), 1 story, 51 x 146 ft. and 2 story, 40 x 113 ft. and 40 x 145 ft. rein.-con. and brick, plain foundation, to A. W. Kutsche, 535 Griswold St., Detroit.

Ill., Chicago—Apartment—M. Begun, 4014 Southport Ave., 2 story and basement, 60 x 145 ft., fireproof construction, 1401-11 Irving Park Blvd., to M. Rizinsky, 1607 South Central Park Ave. Archts. est. $200,000.

Ill., Chicago—Apartment, Store and Office—D. S. M. Edison, 6918 Sheridan Rd., 3 story, 120 x 286 ft., rein.-con., brick and steel, 3733-55 North Halsted St., by day labor, $250,000. Dubin & Eisenberg, 14 West Washington St., archts.

Ill., Chicago — Apartment — Lindstrom & Johnson, 30 North Dearborn St., 3 story, 100 x 293 ft., rein.-con., brick and steel, 4520-28 Drexel Blvd., by day labor, $200,000. P. T. Johnston, 190 North State St., archt.

Ill., Chicago—Apartment—C. Nielsen, archt., 1853 Greenleaf Ave., 3 story, 82 x 172 ft., fireproof construction, 1847-53 Greenleaf Ave., to H. E. Jensen, 4948 North Hamlin Ave. Archts. est. $150,000. Owner's name withheld.

Ill., Chicago—Hospital—Austin Hospital Assn., Austin, 6 story, 120 x 200 ft., rein.-con., brick and steel, Central and Flournoy Sts., to R. Sollitt & Sons Constr. Co., 5 North La Salle St. Archts. est. $400,000.

Ill., Chicago—Hotel—Chelsea Hotel Co., 4750 Sheridan Rd., 10 story, 116 x 130 ft., rein.-con., brick and steel, 920 Wilson Ave., to McLennan Constr. Co., 400 North Michigan Ave. Archts. est. $600,000.

Ill., Chicago—Market—A. J. Minkus, c/o Leichenko & Esser, archts., 38 South Dearborn St., 2 story, 100 x 100 ft., rein.-con., brick and steel, Fulton and Sangamon Sts., to Thogerson & Ericksen, 4804 North Kedzie Ave. Archts. est. $150,000.

Ill., Chicago—Store and Office—J. Horwitz, 6422 Randolph St., 2 story and basement, 132 x 243 ft., rein.-con., brick and steel, 4009-61 Lincoln Ave., to Nestto, Wagstad, Carlson Co., 1743 North Crawford Ave. Archts. est. $150,000.

Ill., Chicago—Store and Apartment—F. A. Johnson, c/o Morgan Door and Sash Co., 2287 Blue Island Ave., 3 story, 175 x 200 ft., rein.-con., brick and steel, 4830-48 West Madison St., to A. T. Herlin, 6117 Evans Ave. Archts. est. $300,000. Noted Apr. 19.

Ill., Chicago—Store—Strauss & Schram, 665 West Madison St., 5 story, 72 x 110 ft., rein.-con., brick and steel, 63rd and Green Sts., to Broline-Nolan & Co., 5 North La Salle St. Archts. est. $175,000. Noted Apr. 19.

Wis., Milwaukee—Bank—Amer. Exchange Bank, Plankinton Arcade, 4 story and basement, 70 x 102 ft., brick, stone and concrete, plain foundation, Grand Ave., to W. W. Oeflein, Inc., 86 Michigan St. Archts. est. $400,000.

Ia., Mason City — Hospital — St. Luke's Lutheran Hospital, 3 story and basement, 40 x 206 ft., concrete and brick, to C. Rye & Son, Mason City, cost plus percentage basis. Archts. est. $150,000. Noted Mar. 22.

Mo., Kansas City—Club—Y. M. H. A., 3123 Troost Ave., 3 story and basement, 121 x 144 ft., rein.-con., brick and terra cotta, Linwood Blvd. and Wayne Ave., to Patti Moore Constr. Co., Okmulgee, Okla. Archts. est. $300,000.

Mo., St. Louis — Market — St. Louis County Producers Market Co., Sarah and Laclede Aves., 2 story and basement, 155 x 180 ft., rein.-con. and brick, plain foundation, West Pine St., to W. A. Bopp Constr. Co., Boatsmen Bank Bldg. Archts. est. $175,000.

Tex., San Antonio—Church—St. Marys Catholic Church, 1 story, 90 x 110 ft., rein.-con., steel brick and stone, concrete pile foundation, St. Marys and College Sts., to Walsh & Burney, Calcasieu Bldg., $250,000. Noted May 10.

Calif., Elsinore—Club, etc.—W. I. Jackman, 329 Consolidated Realty Bldg., Los Angeles, representing Southern California Country and Athletic Club, (owner), 3 story rein.-con. club house, pier, pavilion and out buildings, to Engineering Service Co., Washington Bldg., Los Angeles. Cost to exceed $350,000.

Calif., Los Angeles—Hotel—R. B. Rust, archt., Black Bldg., 5 story, brick, Bixel St. near Ingraham St., to L. T. Mayo, 531 Black Bldg., $165,000. Owners name withheld.

Calif., Los Angeles—Mercantile, etc.—Cooper Dry Goods Co., c/o Curlett & Beelman, archts., Union Bank Bldg., 11 story and basement, 150 x 160 ft. mercantile, and 1 story and basement, (ultimately 11 story), 100 x 100 ft., shipping department in connection with foregoing, both rein.-con., 9th and Los Angeles Sts., to Scofield Eng. Co., Pacific Finance Bldg. Noted Dec. 21.

Calif., Modesto—Schools—Modesto Grammar School Dist., 2 brick schools and altering present building, to Herndon & Finegan, 1814 - 17th St., Sacramento, $140,000. Noted May 3.

Calif., Pasadena — School — Pasadena School Dist., Washington School, brick, general contract to A. Johnson, Kingsburg Bank Bldg., Kingsburg, $185,442. Noted Mar. 22.

Calif., San Francisco — Office — Medico-Dental Bldg. Corp., c/o G. W. Kelham, archt., Sharon Bldg., 12 or 15 story, fireproof, Post and Mason Sts., to G. Wagner, 251 Kearny St., cost plus percentage basis, about $1,350,000. Noted Mar. 22.

Calif., San Francisco—Store—See "Industrial Works."

Calif., Yuba City—High School—Yuba City Union High School Dist., 1 and 2 story, tile and brick, masonry and carpentry work to J. Holdener Constr. Co., 2310 J St., Sacramento, $132,966; plastering to T. Scollan, 2929 T St., Sacramento, $24,800; complete mechanical equipment to Latourette-Fical Co., 907 Front St., Sacramento, $64,890. Noted May 10.

Federal Government Work

PROPOSED WORK

Mass., Boston—Repairs—Spec. 4848—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans repairs to officers quarters, here.

Pa., Phila—Laboratory—Spec. 4845—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans engine testing laboratory, here.

Md., Baltimore—Dredging—U. S. Engineer, Baltimore, rejected bids dredging in Claiborne Harbor, here. Noted Apr. 5.

Mich., Detroit—Superstructure—U. S. Engineer, 337 Federal Bldg., rejected bids superstructure on west center pier, St. Marys Falls Canal. Noted Apr. 5.

California—Bridges—U. S. Bureau Pub. Rds., Mills Bldg., San Francisco, soon takes bids 2 rein.-con. bridges in Santa Barbara Co. G. H. Sweetser, dist. engr.

Calif., Presidio (San Francisco P. O.)—Laundry, etc.—Treas. Dept., Wash., D. C., having plans prepared by W. A. Newman, archt., Post Office Bldg., San Francisco, 2 story, brick, laundry, servants' quarters, kitchen, dining room, etc., at Marine Hospital, here. J. A. Wetmore, acting super. archt.

Calif., San Diego—Barracks, etc.—Spec. 4843—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans barracks and wing for mess hall, here.

Calif., San Diego—Roads—Spec. 4844—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans additional roads, here.

Calif., San Diego—Storehouse—Spec. 4849—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans paint and oil storehouse at supply depot, here.

Calif., San Diego—Walks and Grading—Spec. 4846—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans walks and grading, here.

BIDS DESIRED

N. J., Oceanport—Road Repair—May 31, at office Constructing Quartermaster, Camp Alfred Vail, resurfacing roads, here; adv. this issue.

Miss., Vicksburg—Levee Work—May 29, at office 3rd Mississippi River Dist., P. O. Box 404, construction of levee work; adv. this issue.

Ky., Dawson Springs—Recreation Building, etc.—June 15, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., recreation building and officers' quarters, here; adv. this issue. Noted Apr. 19.

Ky., Louisville—Lumber—May 21, at office U. S. Engineer, P. O. Box 72, furnishing and delivering 100 pieces 3 and 4 x 10 in. x 30 ft. rough oak; 125 pieces 12 x 12 in. x 12ft. oak; 120 pieces 2 and 6 x 12 in. x 14 ft. oak, 35,000 ft. long leaf yellow pine. Noted May 3.

Minn., St. Cloud—Stack—Spec. 4833—June 13 by Bureau Yards & Docks, Navy Dept., Wash., D. C., for radial brick stack, here.

Calif., Richmond—Dredging, etc.—June 1, at office U. S. Engineer, Custom House, San Francisco, dredging 910,000 cu.yd. and building 2,000 lin.ft. retaining wall in Harbor, here. Noted Mar. 29.

Calif., San Diego—Barracks—Spec. 4765—June 6, by Bureau Yards & Docks, Navy Dept., Wash., D. C., barracks buildings at Naval Base, here; adv. this issue. Noted Dec. 7.

Calif., San Diego—Dredging—June 2, at office U. S. Engineer, Central Bldg., Los Angeles, 480,000 cu.yd. dredging in Harbor, here.

Calif., San Diego—Roads—Spec. 4766—June 6 (change of date) by Bureau Yards & Docks, Navy Dept., Wash., D. C., for roads at Marine Barracks, here. Noted Apr. 26.

BIDS RECEIVED

N. Y., Binghamton — Boilers — Treas. Dept., Wash., D. C., 2 horizontal fire-box boilers, at U. S. Court House and Post Office, here, from C. J. Gleason, 1526 Walton Way, Augusta, Ga., $3,140. Noted Apr. 19.

N. Y., Dunkirk—Superstructure—U. S. Engineer, Federal Bldg., Buffalo, stone superstructure on breakwater, here, from Central Dredging Co., Bangor Bldg., Cleveland, O., $58,860. Noted Mar. 22.

Ala., Mobile — Quarters — Treas. Dept., Wash., D. C., medical officers quarters at U. S. Marine Hospital, here, from Realty Constr. Co., Mobile, $9,781. Noted Apr. 19.

Ky., Louisville—Bear Trap Leaves—U. S. Engineer, P. O. Box 72, bear trap leaves for Dam 44, Ohio River, from Penn Bridge Co., Beaver Falls, Pa., $47,770. Noted Apr. 12.

Minn., St. Cloud—Water System, etc.—Spec. 4830—Bureau Yards & Docks, Navy Dept., Wash., D. C., water, drainage and sewerage systems, at U. S. Veterans Hospital, here, from W. D. Lovell, 1415 8th St., S. E., Minneapolis, $24,693. Noted Apr. 19.

Nevada — Roads — C. H. Sweetser, dist. engr., U. S. Bureau Pub. Rds., Mills Bldg., San Francisco, Calif., grading and surfacing 16.5 mi. Austin-East National Forest Highway, Lander Co., from Easton & Brown, Austin, alternates (1) contractor furnishes explosives (2) Government furnishes explosives 80,058 cu.yd. excav., (1) $0.58 (2) $0.57, 188 cu.yd. Class A and 196 cu.yd. Class C concrete $35, 7,155 cu.yd. crushed rock surfacing $4.75, etc., total (1) $99,308 (2) $98,518 deduct for equipment $2,219. Noted Apr. 12.

CONTRACT AWARDED

Pa., Phila.—Underpinning Chimney—Spec. 4818—Bureau Yards & Docks, Navy Dept., Wash., D. C., underpinning chimney foundation, at Navy Yard aircraft factory, here, (1) work complete, to Triest Contg. Co., 247 Park Ave., New York City, (1) $16,980 (120 days) alternate (2a) $16,480, alternate (2b) $15,480. Noted Apr. 19.

Pa., Tobyhanna — Disposal Plant — Constructing Quartermaster, 39 Whitehall St., New York City, sewage disposal plant and sewerage system at Tobyhanna Artillery Target Range, here, to Arnolt-More, Inc., 45 Clinton St., Newark, N. J., $26,900. Noted Mar. 29.

D. C., Wash.—Repairs—Spec. 4841—Bureau Yards & Docks, Navy Dept., repairs to Marine barracks and officers quarters at Navy Yard, to C. A. Hofferberth Contg. Co., Woodward Bldg., $6,390. Noted Apr. 26.

Va., Norfolk—Removing Fenders—U. S. Engineer, removing fenders and placing new ones on Core Bridge, North Carolina, to A. R. Masters Co., Bank of Hampton Bldg., Hampton, $12,250. Noted Mar. 15.

O., Columbus—Hangars, etc.—Constructing Quartermaster, Columbus General Reserve Depot, demolishing 2 steel hangars, erecting 2 steel hangars, etc., to E. H. Latham & Co., 60 East Broad St., $19,115. Noted Apr. 19.

Federal Government Work (Continued)

Ind., Ft. Benjamin Harrison—Sewers—Constructing Quartermaster, reconstruction and repair of sanitary sewer and disposal plant, to S. M. Timberlake Co., Amer. Central Life Bldg., Indianapolis, $24,000. Noted Apr. 19.

Mich., Detroit—Crib-Dolphins, etc.—U. S. Engineer, 337 Federal Bldg., crib-dolphins and connecting walks, at entrance to Short Cut Canal, Rouge River, to Candler Dock and Dredge Co., 8145 Medina St., $15,570.

California—Road—C. H. Sweetser, dist. engr., U. S. Bureau Pub. Rds., Mills Bldg., San Francisco, Calif., grading approximately 12 mi. road Mineral Sect. Red Bluff—Susanville Lateral in Lassen National Forest, Tehama Co., 134,224 cu.yd. excav., etc., to Redmond, Page & Pond, Balboa Bldg., San Francisco, $143,965. Noted Mar. 22.

H. T., Pearl Harbor—Dredging—Spec. 4842—Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging slip here, to Hawaiian Dredging Co., 854 Kukuhuana St., Honolulu, $11,700 (45 days).

Miscellaneous

PROPOSED WORK

Power Development—Phila, N. Y.—Antwerp Light & Power Co., Antwerp, plans development of 1,000 hp. under 60 ft. head, on Indian River, here, work includes concrete dam, power house, rock excav., tailrace and generating equipment. To exceed $150,000. J. Baumert, Antwerp, pres.

Conduits—Erie Pa.— Plans 3 high and low tension conduit systems in State and Liberty Sts. and Cherry St. Subway. $28,500. F. G. Lynch, city engr.

Ferry House—New Orleans, La.—Bd. Port Comrs., New Court Bldg., having plans prepared ferry house, rein.-con., Canal St. $100,000. A. Owen, Interstate Bank Bldg., archt.

Transmission Line—Kentucky—Kentucky Utilities Co., M.E.T. Bldg., Louisville, plans 33,000 volt. transmission line from Rockport to Echols to electrify coal mines at Echols. $30,000. G. T. Bogard, c/o owner, engr.

Transmission Line—Kentucky—Kentucky Utilities Co., M.E.T. Bldg., Louisville, plans 23 mi. transmission line from Lancaster to Richmond. $150,000. G. T. Bogard, c/o owner, engr.

Terminal—Louisville, Ky—Inland Waterways Co., P. O. Box 22, plans two river terminals, East End and West End, incl. railroad tracks, etc. To exceed $25,000. P. Calhoun, Jr., pres.

Stadium—East Lansing, Mich.—E. A. Bowd, archt., Allegan St. W., Lansing, takes bids about June 15, 80 x 500 ft. rein.-con. stadium, 40,000 capacity, College St., for Michigan Agricultural College.

Transmission Line—Ellis Junction, Wis.—Wisconsin Pub. Service Co., 559 Marshall St., Milwaukee, having plans prepared and soon takes bids 5 mi. transmission line from here to High Falls. Work includes several steel tainter gates and 2 steel penstocks for dam. Mead & Seastone, Journal Bldg., Madison, engrs.

Street Lighting System—Shorewood (Milwaukee, P. O.), Wis.—Soon takes bids street lighting system, incl. 90,000 lin.ft. underground trenching, 100,000 lin.ft. wire, 400 transformers, etc. $85,000. A. J. Sweet, 531 Grand Ave., engr. Noted Feb. 22.

Power Line—Devils Lake, N. D.—Midwest Power Co., plans 45 mi. high power line from here to Carrington. $55,00.

Electric Light Improvements—Bolivar, Mo.—See "Sewers."

Steel Tanks—Kansas City, Mo.—Monarch Gas & Oil Co., 1740 Guinotte Ave., having plans prepared steel tanks. $50,000. A. A. Smith, pres. Private plans.

Pipe Line—Texas—Mountain States Pipe Line Co., Amarillo, making plans and surveys 14 in. gas line from oil field 28 mi. north, to Amarillo. $5,000,000. H. K. Hintzer, Amarillo, engr.

Power Development—Quebec—Northern Canada Power Co., Timmins, Ont., plans power development at Ka-Ka-Ke Rapids on Des Quinze River. Site is capable of developing 100,000 hp. but it is probable that initial development will be about 20,000 hp. Work includes concrete dam, power house, turbines, generators, transformers, oil and water pumps, transmission lines, etc. $3,000,000 to $4,000,000. Viele, Blackwell & Bucke, 49 Wall St., New York City, engrs.

Transmission Line—Ontario—Hydro Electric Power Comn., 190 University Ave., Toronto, plans 75 mi. high-voltage transmission line from Port Arthur to Cameron Falls. F. A. Gaby, ch. engr.

Coal Handling Plant—Toronto, Ont.—Milnes Coal Co., Ltd., 88 King St. E., plans coal handling plant incl. concrete storage bins with unloading pocket and elevating apparatus, at 1520 St. Clair Ave. W. $30,000.

Ferry Docks—Windsor, Ont.—Detroit & Windsor Ferry Co. plans to extend and improve docks here, wood pile, concrete and timber. $200,000. Private plans.

BIDS DESIRED

Paving Blocks—New York, N. Y.—May 18, by Bd. Purch., creosoted wood paving blocks, to Dept. Plant & Structures. G. A. Whalen, chn.

Electric Transmission Line—Seneca, Mo.—May 24, by N. S. Freeman, city clk., electric transmission line from here to Grand Falls. H. G. Olmsted Co., Oklahoman Bldg., Oklahoma City, Okla., engrs.

Transmission Line, etc.—Modesto, Calif.—May 26, by C. S. Abbott, secy. Modesto Irrigation Dist., constructing 7.6 mi. 66,000 volt transmission line and 40 mi. distributing line (11,000 and 4,000 volts). Bids will be received on any or all of following items (1) lump sum for 7.6 mi. of completed 66,000 volt transmission line, contractor to furnish materials and labor (2) contractor to furnish labor and carry out construction, Dist. to furnish materials (3) itemized bids for any or all line materials (4) contractor to furnish all labor and carry out construction of 40 mi. distributing lines, comprising both 11,000 and 4,000 volt circuits, Dist. to furnish materials going into lines (5) contractor to furnish all labor and carry out construction, as specified, of 7.6 mi. of 66,000 volt transmission line and of 40 mi. of distributing lines, Dist. to furnsh all materals. R. J. O'Connell, Modesto, electrical engr.

BIDS RECEIVED

Cement and Road Oil—Hartford, Conn.—City, 400 bbl. cement, from Amer. Cement Co., 920 Windsor St., $3.90 per bbl.; 400,000 gal. road oil 45% asphalt base, and 500,000 gal. 65% base, from Mace Moulton Inc., 6 Beacon St., Boston, $0.0554 per gal. Noted Apr. 19 and 26.

Subway—Rochester, N. Y.—Bd. Contr. & Supply, City Hall, 4 track rapid transit railway, stations, bridge, excavating in old canal bed, Contr. 2, from I. M. Ludingtons Sons, Inc., 124 Powers Bldg., $1,654,765. Engrs. est. $1,897,516. Noted Apr. 26.

Tar, etc.—Trenton, N. J.—State Hy. Comn., May 7, from T. Tobish, Mechanic Bldg., 245,928 gal. Grade U. B. tar $24,593; from Barrett Co., 40 Rector St., New York City, 118,697 gal. Grade B tar $11,276, 10,705 gal. Grade X tar $1,071; from National Slag Co., Allentown, Pa., 3,115 tons slag $3,115; from Duquesne Slag Product Co., 34 West Blackwell St., Dover, 5,530 tons slag $6,010; from Standard Bitulithic Co., Church St., New York City, 940 tons bituminous concrete $21,375; from G. F. Brackett, Heights Rd., Ridgewood, 1,000 tons bituminous concrete $17,900; from Union Paving Co., Passaic (street address not available), 40 tons bituminous concrete $1,005; from Utility Constr. Co., 5 Spring St., New Brunswick, 200 tons bituminous concrete $4,400; from J. J. Barrett, 651 Greenwood Ave., 252 tons bituminous concrete $6,805; from Union Paving Co., 30th and Locust Sts., Phila., 3,885 tons bituminous concrete $95,377,664 tons sheet asphalt $572. Noted Apr. 19.

Iron Castings, etc.—Baltimore, Md.—Bd. Awards, May 9, 200,000 lb. manholes, sewer inlet and iron castings, from Greenmount Iron & Mfg. Co., 833 Greenmount Ave., $0.0275 per lb. Noted May 3.

Asphalt Cement—Milwaukee, Wis.—Furnishing 100 tons asphalt cement, from Standard Oil Co., 105 Wells St., $23.62 per ton.

Road Oil—Milwaukee, Wis.—Furnishing 400,000 gal. medium-light road surfacing oil, from Jewett & Somers Oil Co., 20 West Jackson Blvd., Chicago, $.0648 per gal. Noted Apr. 19.

CONTRACTS AWARDED

Heating and Ventilating Apparatus, etc.—Astoria, N. Y.—W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, heating, ventilating and temperature regulation apparatus, in P. S. 70, 12th Ave., here, to D. J. Rice, 42nd St. and Lexington Ave., New York, $81,893. Noted May 3.

Heating and Ventilating Apparatus, etc.—Brooklyn, N. Y.—W. H. Gompert, archt., Flatbush Ave. extension and Concord St., heating, ventilating and temperature regulation apparatus, in P. S. 161, Crown St., to D. J. Rice, 42nd St. and Lexington Ave., New York, $81,896; P. S. 192, 18th Ave. and P. S. 193, Ave. L, to Almirall & Co., 1 Dominick St., New York, $82,711 and $82,865, respectively. Noted May 3.

Steel—Flushing, N. Y.—Transit Comn., 49 Lafayette Ave., New York, furnishing and erecting steel for part of Rapid Transit R.R., Route 52, Sect. 1, Flushing Route, to McClintic Marshall Co., 50 Church St., New York, $679,839. Noted Apr. 26.

Gas Holder—Herkimer, N. Y.—Utica Gas & Electric Co., Foley Blk., fabrication for steel gas holder, 500,000 cu.ft., South Main St., to Newport Constr. Co., 200 North Main St.; structural steel, to Stacey Bros. Co., 5535 Carthage Pike, Elmwood, Cincinnati, O. Total cost $150,000.

Heating and Ventilating Apparatus, etc.—New York, N. Y.—W. H. Gompert, arch., Flatbush Ave. extension and Concord St., Brooklyn, heating, ventilating and temperature regulation apparatus, in P. S. 65, East 41st St., here, to T. F. Hall, Inc., 405 Lexington Ave., $84,710. Noted May 3.

Paving Blocks—New York, N. Y.—Bd. Purch., Municipal Bldg., granite paving blocks to Dept. Plant & Structures, to St. George Granite Co., St. George, $5,040. Noted Apr. 26.

Underground Fire Alarm System—New York, N. Y.—T. J. Drennan, fire comr., Municipal Bldg., portion of underground fire alarm system, Boro of Bronx, to W. F. Kenney Co., 44 East 23rd St., Sect. 1 $6,812; James Sudgen Co., 17 West 42nd St., Section 2 $30,767. Noted May 3.

Stadium—Danville, Ky.—Athletic Bd. of Centre College, concrete stadium, 8,000 seating capacity, to Blanchard Bldg. Co., 928 Lindsay St., Dayton, O. Addition of 4,000 more seats may be made later, making total cost $150,000. Noted Feb. 15.

Crude Oil—Louisville, Ky.—City, furnishing and delivering 125,000 gal. crude oil for streets, to Standard Oil Co. of Kentucky, 424-430 West Bloom St., $8,000.

Foundation, etc.—Pineville, Ky.—Kentucky Utilities Co., M.E.T. Bldg., Louisville, constructing foundation, sub-structure, etc., for 15,000 kw. hydro-electric plant, 5 mi. from here, on Pine Mt. Branch of Louisville & Nashville R.R., to Foundation Co. of America, 28 East Jackson Blvd., Chicago. Engrs. est. $2,000,000.

Stadium — East Cleveland (Cleveland P. O.), **O.**—Bd. Educ., concrete stadium of two stands 50 x 350 ft., to Rice-Jones Co., Union Bldg., Cleveland, $67,500. Noted Apr. 19.

Grade Separation—Detroit, Mich.—Wayne Co. Rd. Comn., 1102 Real Estate Exch. Bldg., substructure for grade separation at Oakwood Blvd. and Detroit, Toledo & Ironton R.R. tracks 2 mi. west of Oakwood, incl. concrete retaining wall, piers and abutments, 14,540 cu.yd. excav., 529 cu.yd. concrete, removel of 2,770 sq.yd. old pavement, to C. R. Lennane, 2631 Woodward Ave., $31,000. Noted Apr. 19.

Road Oil Madison, Wis.—Furnishing 50,000 gal. asphaltic road oil, to Camden Petroleum Co., 208 South La Salle St., Chicago, $0.10 per gal. Noted Apr. 26.

Stadium—Lincoln, Neb.—Nebraska Memorial Assn., c/o University of Nebraska, 552 x 775 ft. rein.-con. and steel stadium, to Parson Constr. Co., 404 Arthur St., Omaha, $619,000. Noted Apr. 12.

Cement, etc.—St. Louis, Mo.—Commissioner Oetting, to Missouri Portland Cement Co., Post Dispatch Bldg., 300 bbl. cement in paper sacks $3.05, 150 tons sand $2.35 f.o.b. and 80 tons gravel $2.35; to Progress Press Brick & Machine Co., Kingshighway and Arsenal St., 200,000 sewer brick $19.50 per M.; to Tower Grove Fdry. Co., 4438 Hunt Ave., 24 manhole caps and covers, 150 steps, 250 inlet covers and 20 inlet irons $1,459; to Blackmer Post, Boatmen's Bank Bldg., 2,000 ft. d. s. 12 in. vitr. sewer pipe $846, 500 ft. d. s. 15 in. pipe $353, 150 pipe bends $254 and 150 y junctions $286, total $1,738.

Lighting Standards—St. Louis, Mo.—Bd. Pub. Serv., City Hall, 500 concrete lighting standards, to Hogan Constr. Co., 2120 Harris Ave., $11,250. Engrs. est. $15,000. Will purchase 40,000 additional posts and glassware for same at later date. Noted Mar. 22.

Tunnel — Seattle, Wash. — Constructing tunnel under Duwamish Waterway, 1st Ave. S., sinking 137.5 ft. shaft, driving 400 ft. tunnel, lining 500 cu.yd. tunnel and 400 cu.yd. shaft, to R. L. Sparger, Colman Bldg., $107,582. Noted May 10.

Pier and Pavilion—Elsinore, Calif.—See "Buildings."

Levee—Stockton, Calif.—Western-Pacific R.R., Mills Bldg., San Francisco, 2 mi. levee south of here, 175,000 cu.yd., to W. A. Betchel, 625 Market St., San Francisco.

Subway—Montreal, Que.—Rein.-con. subway, Ontario St., to Dufferin Constr. Co., Notre Dame de Grace St., $149,119. Noted Feb. 15.

Underground Conduit and Cable Work—Toronto, Ont.—Bell Telephone Co. Ltd., 78 Adelaide St. W., will install new underground conduits and cables, by day labor, $100,000. F. Kennedy, mgr.